

	INFORME DE BÚSQUEDA EXAMEN DE PATENTABILIDAD NUEVAS CREACIONES							
Solicitud No.		Examen de patentabilidad						
NC2016/0000059		1°		2°		3°	X	Revoca
Solicitud Internacional No.		Fecha solicitud internacional: (DD/MM/AÑO)						
PCT/SE2013/051603		20/12/2013						
Fecha de determinación estado de la técnica (DD/MM/AÑO)				Prioridad		Presentación		
20/12/2013						X		
Solicitante								
ESSITY HYGIENE AND HEALTH AKTIEBOLAG								
Reivindicaciones que no son objeto de búsqueda por:								
Art. 14			Art. 15			Art. 20		
						Art. 25 (Falta de unidad de invención)		
CRITERIOS DE BÚSQUEDA								
Reivindicaciones objeto de búsqueda		1 a 11						
Palabras clave utilizadas		Absorbent material, structure with voids, odor control, activated carbon.						
Clasificaciones utilizadas para la búsqueda		CIP: A61F 13/84, A61L 9/014, A61L 15/46, A61F 13/47, A61F 13/51						
DOCUMENTOS CONSIDERADOS RELEVANTES								
(Documentos patente, Literatura no patente (LNP): Artículos, catálogos, etc.)								
Informes de búsqueda / Bases de datos consultadas	N° de solicitud de patente / N° de patente / Autor LNP ⁽¹⁾	Fecha de Publicación /Presentación (DD/MM/AAAA)	Reivindicaciones /Secuencias afectadas	Citas relevantes del estado de la técnica			Categoría del documento citado ⁽²⁾	
PATBASE	ES 2 036 752	01/04/1995	1 y 8	Reivindicación 1 y 2 Col. 10, línea 67 a Col. 11, línea 8 Col. 3 y Col 4. Fig. 3, 4 y 6.			Y	
	US 5397316	14/03/1995	-	-			A	
	ES 2 091 917	16/11/1996	-	-			A	
ORBIT	US 2013/0164334	02/10/1998	-	-			A	
GOOGLE PATENT	WO 95/10995	27/04/1995	1, 2 a 7 y 9 a 11	Pág. 64, línea 37 a Pág. 65, línea 5 Reivindicación 12, 13. Figuras 1, 4, 5, 21 Pág. 49, líneas 3 a 10 Pág. 51, líneas 3 a 11 Pág. 37, líneas 1 a 10			Y	
	US 4560372	24/12/1985	-	-			A	
	US 4676784	30/06/1987	-	-			A	
⁽¹⁾ Cita completa literatura no patente (LNP)								
Apellido, A. A. (Fecha). Título del artículo. Nombre de la revista. Volumen(Número), pp-pp.								
O								
Apellido, A. A. (Fecha). Título del artículo. Nombre de la revista. Recuperado de http://xxxxxxx.								
⁽²⁾ Categorías de documentos citados								
“A” Documento que define el estado general de la técnica no considerado como particularmente relevante. “E” Solicitud de patente o patente anterior pero publicada en la fecha de presentación internacional o en fecha posterior. “L” Documento citado para llamar la atención sobre por ejemplo, dudas acerca de una reivindicación de prioridad o para determinar la fecha de publicación de otra cita, siempre van acompañados de una explicación, por la cual se citan. “O” Documento del tipo actas de conferencia, este tipo de documentos siempre estará acompañado por otra letra que indique la pertinencia del documento, por ejemplo, O,X, O,Y o bien O,A. “P” Documento publicado antes de la fecha de presentación internacional pero con posterioridad a la fecha de prioridad reivindicada. “T” Documento publicado en fecha posterior a la de presentación o la de prioridad de la solicitud internacional y no entra en conflicto con dicha solicitud, pero puede ser útil para la mejor comprensión del principio o teoría en que se basa la invención, o para demostrar que el razonamiento o los hechos en los que se basa dicha invención son incorrectos. “X” Documento particularmente relevante; la invención reivindicada no puede considerarse nueva o que implique una actividad inventiva por referencia al documento aisladamente considerado. “Y” Documento particularmente relevante; la invención reivindicada no puede considerarse que implique una actividad inventiva cuando el documento se asocia a otro u otros documentos de la misma naturaleza, cuya combinación resulta evidente para un experto en la materia.								
Fecha del reporte de búsqueda: 22-02-2019								
Examinador: Alba Rocío Lemus Quiroga								

Base : FAMPAT

SEARCH STRATEGY

SS Results

8	5	6 AND 7
7	11481	(STRUCTURE 2D VOIDS)/AB/IW/CLMS/DESC/ODES/KEYW/TI/TX
6	470	2 AND 3 AND 4 AND 5
5	16877	(ODOR 1D CONTROL)/AB/IW/CLMS/DESC/ODES/KEYW/TI/TX
4	501195	(ACTIVATED 1D CARBON)/AB/IW/CLMS/DESC/ODES/KEYW/TI/TX
3	45996338	PD<20131220
2	47828	..SIMILARITY SS 1 RANKED 1
1	1	(2013WO-SE51603)/AP

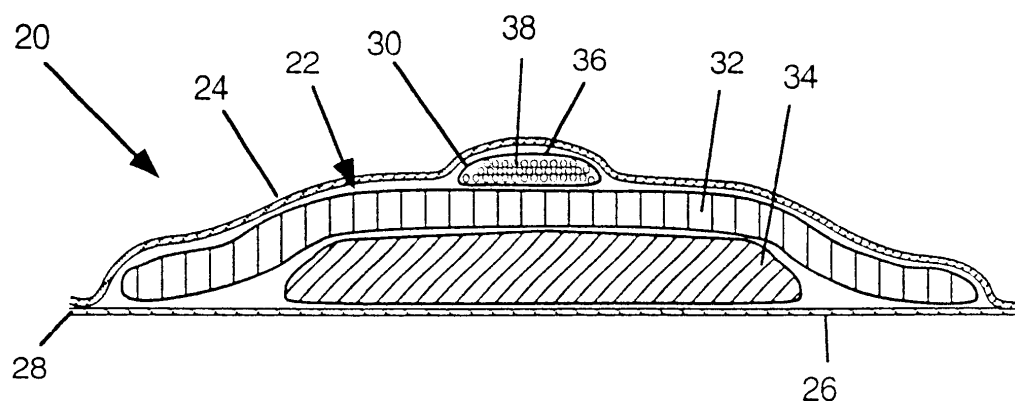
5 Documents

Publication numbers	Title	Current assignees
WO200019955 A2	Absorbent article having integral wicking barriers	KIMBERLY CLARK
WO200063492 A1	Fibrous structures including a fiber bundle and a debonding agent	KIMBERLY CLARK
US20040054331 A1	Absorbent articles with nits and free-flowing particles	KIMBERLY CLARK WORLDWIDE
US6562192 B1	Absorbent articles with absorbent free-flowing particles and methods for producing the same	KIMBERLY CLARK WORLDWIDE
WO9961518 A1	Fibrous absorbent material and methods of making the same	KIMBERLY CLARK

Family 1/5 - FAMPAT - ©Questel

Title

(EP1119328)

Absorbent article having integral wicking barriers**Images****Publication data including kind & date**

WO200019955	A2	2000-04-13	WO200019955				
CA2345608	A1	2000-04-13	CA2345608				
AU6499999	A	2000-04-26	AU9964999				
SV1999000172	A	2000-07-06	SV9900172				
WO200019955	A3	2000-09-21	WO200019955				
PA8483701	A1	2000-09-29	PA8483701				
BR9914225	A	2001-06-26	BR9914225				
BRPI9914225	A1	2001-06-26	BRPI9914225				
EP1119328	A2	2001-08-01	EP1119328				
KR20010085873	A	2001-09-07	KR20010085873				
IN0456/CHENP/2001	A	2001-12-22	IN2001CN00456				
MXPA01003402	A	2002-01-01	MX2001PA003402				
CO5121067	A1	2002-01-30	CO5121067A1				
ZA200102549	B	2002-03-26	ZA200102549				
TW482664	B	2002-04-11	TW-482664				
AR020698	A1	2002-05-22	AR--20698				
CN1367674	A	2002-09-04	CN1367674				
JP2003521955	A	2003-07-22	JP2003521955				
US6667424	B1	2003-12-23	US6667424				
US6673982	B1	2004-01-06	US6673982				
US20040102752	A1	2004-05-27	US20040102752				
CN1213710	C	2005-08-10	CN1213710C				
US7429689	B2	2008-09-30	US7429689				

Abstract

(EP1119328)

An **absorbent** article comprising a central **absorbent** member and a lateral wicking barrier for inhibition of wicking from the central regions of the article to an outlying outer **absorbent** member. The wicking barrier has a vertical component for prevention of radial wicking in the plane of the article and thus promotes center filling of the article with fluid and reduces the likelihood of leaks from the sides of the article. The wicking barrier can also have a horizontal component to prevent

leakage, redirect fluid flow, and improve fit and performance of the article. In one embodiment, the central **absorbent** member is a concentric **absorbent** structure having alternating rings of barrier material and **absorbent** material, including a spiral wound composite formed from a layer of barrier material wound with a layer of **absorbent** material and then sliced to provide a thin **absorbent** layer having high permeability in the thickness direction but low permeability in the plane due to the barrier material. In a second embodiment the **absorbent** Core consists out of an outer **absorbent** member having a central void, open toward the body side of the **absorbent** article a central **absorbent** member disposed over and extending into the open void and a wicking barrier disposed between the outer and central **absorbent** member. In a second embodiment the **absorbent** core consists out of an outer **absorbent** member having a central void, open toward the body side of the **absorbent** article a central **absorbent** member disposed over and extending into the open void and a wicking barrier disposed between the outer and central **absorbent** member.

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Latest standardized assignees - inventors removed

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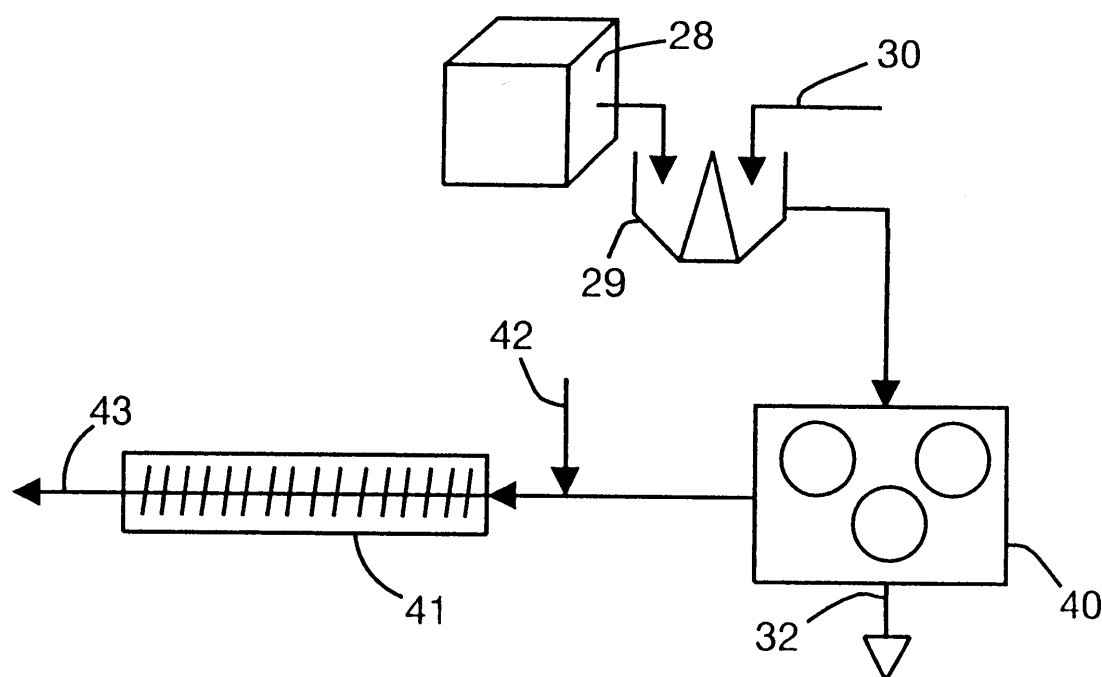
Family 2/5 - FAMPAT - ©Questel

Title

(EP1192312)

Fibrous structures including a fiber bundle and a debonding agent

Images



Publication data including kind & date

WO200063492	A1	2000-10-26	WO200063492
WO200063487	A1	2000-10-26	WO200063487
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AU4356600	A	2000-11-02	AU200043566



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EP1175528	A1	2002-01-30	EP1175528				
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MXPA01009989	A	2002-02-01	MX2001PA009989				
BR0008662	A	2002-02-19	BR200008662				
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BRPI0009807	A1	2002-11-26	BRPI0009807				
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JP2002541918	A	2002-12-10	JP2002541918				
CO5241291	A1	2003-01-31	CO5241291A1				
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AU763451	B2	2003-07-24	AU-763451				

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CZ20013566	A3	2003-10-15	CZ200103566				
CN1179088	C	2004-12-08	CN1179088C				
PL364822	A1	2004-12-27	PL2000364822				
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DE60035340	D1	2007-08-09	DE60035340				
CN100337608	C	2007-09-19	CN100337608C				
DE60035340	T2	2008-02-14	DE60035340				
BRPI0008620	A2	2009-08-11	BR200008620				
BRPI0008662	A2	2010-03-23	BR200008662				
IN1395/CHENP/2001	A	2010-04-16	IN2001CN01395				
IN1396/CHENP/2001	A	2010-04-16	IN2001CN01396				
IN1376/CHENP/2001	A	2010-04-16	IN2001CN01376				

Abstract

(EP1192312)

Fibrous structures having an improved efficacy in the handling of complex fluids. The fibrous structures include at least one fiber bundle and at least one debonding agent. The fiber bundle includes at least one particulate material consisting essentially of entangled fibers.

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Latest standardized assignees - inventors removed

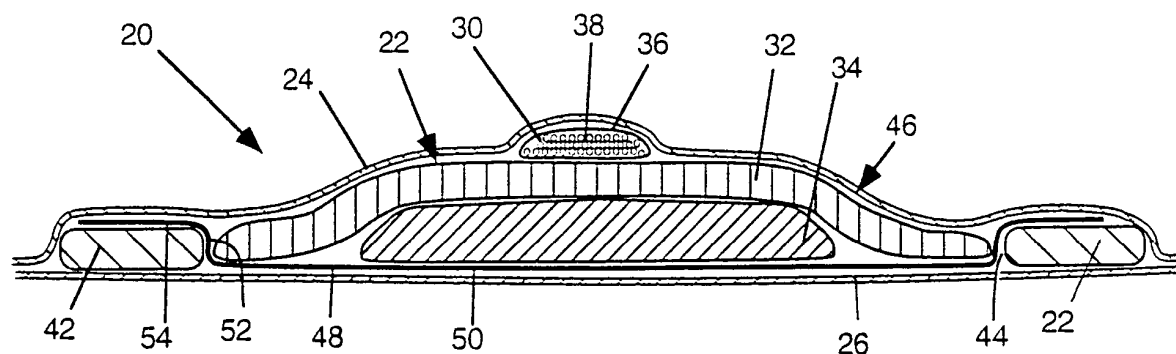
KIMBERLY CLARK

Family 3/5 - FAMPAT - ©Questel

Title

(US7265258)

Absorbent articles with nits and free-flowing particles**Images**



Publication data including kind & date

US20040054331	A1	2004-03-18	US20040054331
US7265258	B2	2007-09-04	US7265258



Abstract

(US7265258)

Absorbent articles comprising fibrous nits and other free-flowing particles are disclosed. In one embodiment, an **absorbent** article is disclosed comprising free-flowing particles in a central portion which, in conjunction with other **absorbent** members, provides excellent body fit and good fluid handling performance. In another embodiment, good leakage control is provided by the combined effect of good intake and fluid handling performance of fibrous nits coupled with a wicking barrier between the nits and the longitudinal sides of the articles. An optional central rising member can further enhance the topography of the article when compressed by urging the portion comprising nits to deflect vertically upward. Methods of preparing cellulosic nits and incorporating them into **absorbent** articles are also described.

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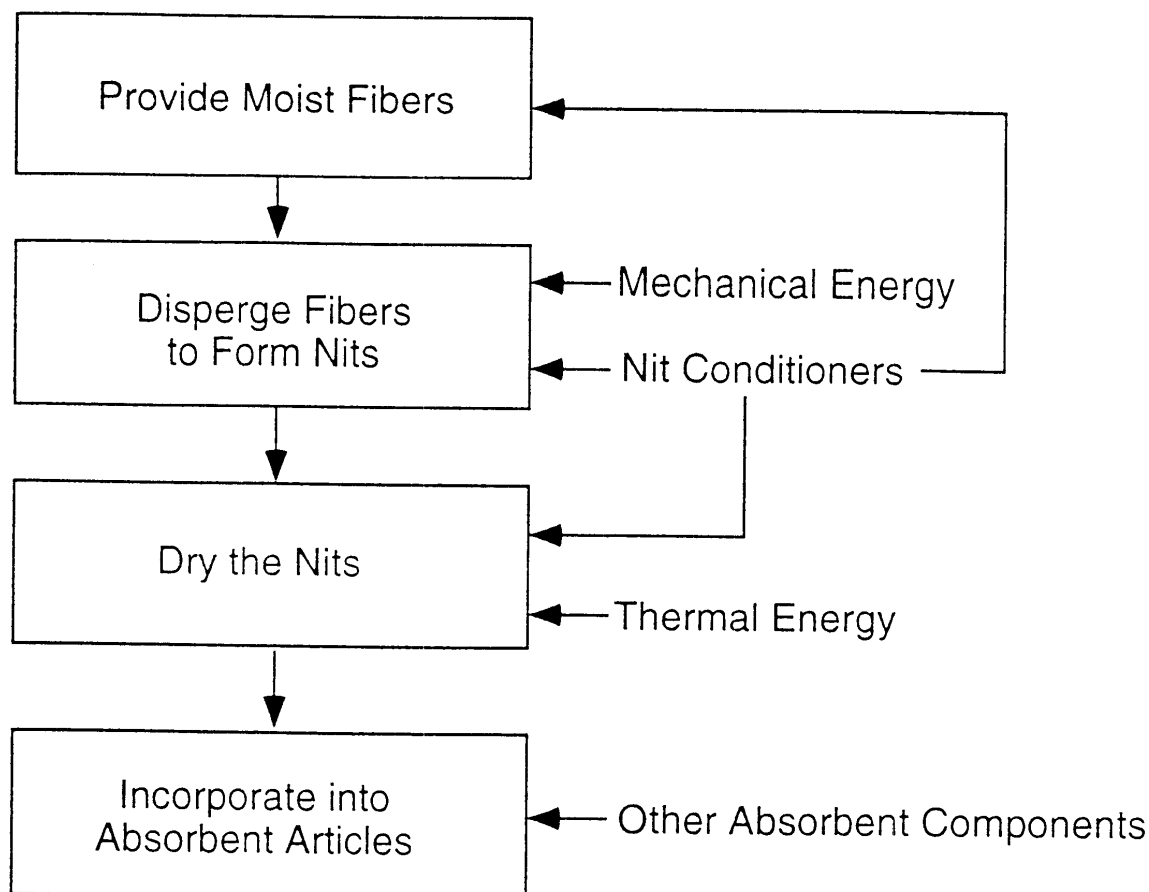
Family 4/5 - FAMPAT - ©Questel

Title

(US6562192)

Absorbent articles with **absorbent** free-flowing particles and methods for producing the same

Images

**Publication data including kind & date**[US6562192](#)

B1 2003-05-13 US6562192

**Abstract**

(US6562192)

Free flowing particles useful in **absorbent** articles are disclosed, including fibrous nits and methods of preparing fibrous nits. In one embodiment, fibrous nits are prepared from dispersing cellulosic fibers in the presence of a nit conditioner which modifies nit particle size and properties for improved performance of the particles. In other embodiments, nits are prepared in multiple dispersing steps or by dispersing fibers under two or more conditions.

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Latest standardized assignees - inventors removed

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Family 5/5 - FAMPAT - ©Questel

Title

(EP1082380)

Fibrous **absorbent** material and methods of making the same**Images**

US20030220039	A1	2003-11-27	US20030220039
KR100573644	B1	2006-04-25	KR100573644
BRPI9910660	A2	2011-12-13	BR9910660

**Abstract**

(EP1082380)

Disclosed is a fibrous **absorbent** structure that is wet stable and has large void volume with a density below the critical density of the fiber employed. In one embodiment, the fibrous **absorbent** uses open-celled foam technologies to keep the fibrous structure expanded and bonded. In other embodiments, the resulting fibrous structure resembles an open-celled polymeric foam, with fibers serving as struts stabilized by binder material. In another embodiment, the resulting fibrous structure is filled with hydrophilic open-celled foams with the cell size substantially smaller than the fibrous pores. Such a wet-stable, high void volume fibrous **absorbent** can be used in a disposable product intended for the absorption of fluid such as body fluid, including extensible **absorbent** articles.

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LI YONG

Latest standardized assignees - inventors removed

KIMBERLY CLARK

Search history

Search PN=(WO2015094068) (Results 1)

1:

Search [SP]: 1. hygienic product comprising an odor control material having a longitudinal direction, a transverse direction and a thickness direction, said hygienic product comprising a liquid permeable topsheet, a liquid impermeable backsheet and an absorbent core enclosed between the top sheet and the back sheet, wherein: the odor control material is located between the topsheet and the absorbent core and comprises a first carrier material wherein a plurality of odor control particles consisting of activated carbon are bonded to at least one surface of the first carrier material by a binder substance, the first carrier material in an unexpanded condition has a plurality of transversal slits, and the first carrier material in an expanded condition in the longitudinal direction has a plurality of openings, and the first carrier material is fixed in the expanded condition in the hygienic product whereby the odor control material is in the form of a reticulated structure, wherein the hygienic product is an absorbent product, wherein the odor control material comprises a second carrier material laminated to the first carrier material in expanded condition so that the first carrier material is fixed to the second carrier material in expanded condition in the form of a reticulated structure with openings, wherein the second carrier material is a nonwoven material. 2. hygienic product according to claim 1, wherein the odor control material is fixed in the expanded condition in the hygienic product so that the odor control material covers 5-100 percent of the total surface area in a horizontal plane of the hygienic product. 3. hygienic product according to claim 1, wherein the odor control material is fixed in the expanded condition in the hygienic product so that the odor control material covers 5-60 percent of the total surface area in a horizontal plane of the hygienic product. 4. hygienic product according to claim 1, wherein the first carrier material is a foam material. 5. hygienic product according to claim 1, wherein the slits are provided in staggered rows extending in the transverse direction, having a slit length a of 5-20 mm and a slit distance b between the ends of two mutually sequential slits in the staggered row of 0.4-0.6 times the slit length a, and a row distance c between two adjacent rows of 0.4-0.6 times the slit length a. 6. hygienic product according to claim 5, wherein the slit length a divided with the row distance c is less or equal to 10. 7. hygienic product according to claim 1, wherein the odor control material also comprises an additive selected from the group of a plasticizer, stabilizer, agent improving dispersibility, ph regulating agent, antimicrobial substance, perfume, surfactant, and scenting substance. 8. hygienic product according to claim 1, wherein the binder substance is water soluble so it at least partially dissolves when in contact with an aqueous solution. 9. hygienic product according to claim 1, wherein the first carrier material has a first surface and a second opposite surface wherein the first surface is facing the liquid permeable topsheet and the second surface is facing the absorbent core wherein the odor control particles are bonded to the second surface of the first carrier material so that the surface bonded with odor control particles is facing the absorbent core. 10. hygienic product according to claim 1, wherein the second carrier material is facing the topsheet and the first carrier material is facing the absorbent core. 11. method for producing a hygienic product comprising an odor control material having a longitudinal direction, a transverse direction and a thickness direction, said hygienic product comprising a liquid permeable topsheet, a liquid impermeable backsheet and an absorbent core enclosed between the top sheet and the back sheet, wherein the method comprises the following steps: locating the odor control material between the topsheet and the absorbent core providing a first carrier material forming part of the odor control material and having a first surface and a second opposite surface bonding a plurality of odor control particles consisting of activated carbon to at least the first surface by means of a binder substance providing a plurality of transversal slits in the first carrier material, in an unexpanded condition thereof, so that the first carrier material in an expanded condition in the longitudinal direction has a plurality of openings and fixing the first carrier material in the expanded condition in the hygienic product whereby the odor control material is in the form of a reticulated structure, wherein the hygienic product is an absorbent product, wherein the odor control material comprises a second carrier material laminated to the first carrier material in expanded condition so that the first carrier material is fixed to the second carrier material in expanded condition in the form of a reticulated structure with openings, wherein the second carrier material is a nonwoven material. (Results 0)

Search [SP]: technical field[0001] the present invention relates to an absorbent product comprising an odor control material wherein the odor control material has a longitudinal direction (y), a transverse direction (x) and a thickness direction (z). the odor control material comprises a first carrier material with a plurality of odor control particles bonded to the first carrier material by a binder substance. background[0002] odor prevention in connection with the use of absorbent products, such as incontinence products, is an important comfort factor for consumers. bodily fluid, such as urine, is collected and stored in absorbent products and odors may easily arise. it is important for the wearer that these odors do not spread into the environment. the wearer needs to feel safe when using absorbent products both in respect of leakage and odor prevention or control. [0003] in the field of absorbent products, several different solutions are used to prevent odors. for example, odors can be masked by the use of perfumes or deodorizing compounds. odors may also be adsorbed or absorbed to particles having a large surface area, such as activated carbon, zeolite and starch-based particulate materials. acidic and/or alkaline odors may be neutralized by the use of substances like baking soda and/or citric acid. for bacteria inhibition, substances having low ph or metal salts can be used. accordingly, different odor control agents may be used to prevent odors in different manners. [0004] odor control agents in particle form, such as activated carbon, zeolite and starch-based materials, have been proved to have excellent odor-adsorbing characteristics due to the large surface area of the particles. however, there are some drawbacks related to the use of such odor control agents which may be in a powder form, for example, such powders are very difficult to handle in dry processes due to dusting problems. powders may contaminate both process equipment and products. [0005] in the prior art, there have been attempts to decrease dusting problems of powders as for example disclosed by ep0392528, in which particles of an odor control agent is bonded to a fibrous base web, such as non-woven or paper web. the porous base web is dipped in a saturated slurry containing the odor-adsorbing particles and a binding agent, together with a surfactant. the excess slurry is then squeezed from the web and the web is dried. [0006] odor control agents in particle form may also be difficult to disperse in an even manner in the absorbent products. for example, humidity of the atmosphere may cause the particles to build lumps, and this may cause an uneven distribution in the production process and consequently in final products. [0007] since certain odor adsorbing particles such as for example activated carbon particles are hydrophobic it is also important that these particles do not impair the absorption properties in the product. [0008] thus, there is still a need to improve the handling of odor control agents in particle form during the production of absorbent products and also a need to secure that the odor adsorbing/absorbing properties as well as the liquid absorption properties are maintained or improved. description of the invention [0009] it is an object of the present invention to provide an absorbent product having an efficient odor control system. it is a further object of the present invention to improve the distribution of the odor control particles in the final products so that an efficient odor control system can be obtained without impairing the absorption properties in the final product. it is a further object of the present invention to improve the handling of odor control particles in the production process. [0010] the objects are achieved by an hygienic product comprising an odor control material having a longitudinal direction (y), a transverse direction (x) and a thickness direction (z), wherein the odor control material comprising a first carrier material wherein a plurality of odor control particles are bonded to the first carrier material by a binder substance. furthermore, the first carrier material has in an unexpanded condition a plurality of transversal slits, and in an expanded condition in the longitudinal direction (y) a plurality of openings. the first carrier material is fixed in the expanded condition in the hygienic product whereby the odor control material is in the form of a reticulated structure. the openings in the material allows the liquid to pass through the material and in that way a hydrophobic character of the odor control particles may not harm the liquid inlet. [0011] since the carrier material is slitted and fixed in an expanded (stretched) position so that the slits are forming openings, the material is liquid permeable. thereby it is possible to have the odor control material in close contact to the area where the liquid enters the hygienic product, and it is possible for the odor control particles to immediately capture/adsorb smelling compounds. the odor control material may cover the wetting area of the hygienic product and the odor control material will easier let through liquid. an alternative way of creating openings in a material would be to punch/perforate. however, a slitting method is advantageous over punching/perforating since no material is cut out from the web. this saves money due to less waste of material and also improves the handling in the production process by avoiding to handle a lot of small pieces comprising odor control particles. these small pieces of material may otherwise contaminate both the process equipment and the final product. [0012] the odor control particles may be activated carbon, zeolite or a starch based particulate odor control agent. activated carbon is a hydrophobic odor control agent, whereby it may adsorb hydrophobic odorous substances while aqueous solutions, such as urine, will pass the particles of activated carbon without absorption of liquid. activated carbon can be made from a wide range of source materials such as coal, coconut shells and wood. the material is often charred to achieve carbon, followed by chemical activation or activation by high temperature steam. this produces an activated carbon with an extensive network of pores and a high surface area. [0013] the particles of the activated carbon may have a particle size of from about 0.1-1000 micro m and is preferably from about 1 micro m to about 250 micro m, measured according to astm d5158. particles having a size smaller than 0.1 micro m are often difficult to handle. on the other hand, particles which are larger than 250 micro m may feel uncomfortable or uneven in the final product such as the absorbent product. the specific surface area of the particles determines the area of the substance that is available for binding of and/or interaction with other substances. the specific surface area is defined as bet-surface area. the bet-theory describes the adsorption of gas molecules to a solid surface and is based upon an assumption for the energy for the adsorption of the first layer. by measuring the volume of the gas after desorption, the specific surface area is calculated. the skilled person would know conventional instruments for performing the measurement. [0014] generally, the bet-specific surface area of the water-insoluble particles of activated carbon used in the present invention may be from 100 m²/g to 2000 m²/g

and is preferably larger than 500 m²/g. the specific surface area depends on the physical properties of the particles.[0015] according to one embodiment, the first carrier material is fixed in the expanded condition in the hygienic product so that the odor control material covers 5-100 percent of the total surface area of the absorbent product in its horizontal plane. according to another embodiment, the odor control material may cover 5-60 percent of the total surface area of the absorbent product in its horizontal plane. when measuring the surface area of the absorbent product covered by odor control material, the total surface area of the odor control material in its expanded condition has been measured which includes the area for the openings. fig. 2a shows an example of an absorbent product according to an embodiment of the invention, seen from the side which will be facing the user when it is worn. the total surface of the absorbent product in its horizontal plane is for the absorbent product illustrated in fig. 2a the same as the total surface seen from the side which will be facing the user when worn.[0016] if the hygienic product is an absorbent product such as an incontinence pad or a sanitary napkin, the odor control material may at least be located in the fluid receiving area. if the absorbent product instead is a diaper suitable for absorbing also runny feces, the odor control material may at least be located in the fecal receiving area which is the area that immediately surrounds the point of the absorbent product that is positioned opposite to the user's anus. the fecal receiving area is located in the rear portion of the diaper. so, in a diaper the odor control material may be positioned such that it is only located in the rear portion or in both the rear portion and the front portion. [0017] the first carrier material may be any kind of material such as a foam material or a fibrous material as well as a film material. if the first carrier material is a thin structure, for example a film or a nonwoven, the edges of the slits will be lifted as the material is stretched transversely to the longitudinal direction of the slits, so that the material will transform from a two-dimensional structure to a three-dimensional network structure in which the widened slits form rhombo (Results 0)

Search [SP]: short description of figures[0038] fig. 1a shows a top view of an odor control material according to an embodiment of the invention.
4: [0039] fig. 1b shows a top view of a portion of an example of a first carrier material after it has been slitted.[0040] fig. 1c shows a top view of the first carrier material according to fig. 1b after it has been expanded, i.e. after the slits have been opened to openings.[0041] fig. 2a shows an example of an absorbent product according to an embodiment of the invention, seen from the side which will be facing the user when it is worn.[0042] fig. 2b shows a cross-sectional view of the absorbent product of fig. 2a, along the line ii-ii. (Results 57)

Search (4) AND PD=(2009 OR 2012 OR 2013 OR 1999 OR 1998 OR 2007 OR 2008 OR 2010 OR 2011 OR 1996 OR 2000 OR 2003 OR 1991 OR
5: 1992 OR 1995) (Results 37)

1) Family number: 10645023 (US5429628A)

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Title: ARTICLES CONTAINING SMALL PARTICLE SIZE CYCLODEXTRIN FOR ODOR CONTROL

Abstract: The present invention relates to compositions and articles such as catamenials, diapers, pantliners, paper towels, tissues, underarm shields, etc., which minimize odor caused from body fluids through the incorporation of an effective amount of cyclodextrin, having a particle size of less than 12 microns. Combinations of small particle size cyclodextrins with other odor-controlling materials are also disclosed.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49
A61K8/02 A61K8/19 A61K8/25 A61K8/26 A61K8/73 A61L15/20
A61L15/28 A61L15/46 A61L9/01 A61Q13/00 A61Q15/00 C08B37/16
C08L5/16 C11D3/20 (Advanced/Invention);
A61F13/15 A61L15/16 A61L9/00 A61L9/01 (Advanced/Non-invention)
International (IPC 1-7): A61F13/15 A61K7/00 A61K7/32 A61K7/46
A61L15/16 A61L15/20 A61L15/28 A61L15/46 A61L9/00 A61L9/01
C08B37/16 C08L5/16 C11D3/20
CPC: C08L5/16 A61K8/0208 A61K8/19 A61K8/25 A61K8/26
A61K8/738 A61K2800/56 A61L15/20 A61L15/46 A61L2300/404
A61L2300/622 A61L2300/802 A61Q13/00 A61Q15/00
European: A61K8/02C A61K8/19 A61K8/25 A61K8/26 A61K8/73T
A61L15/20 A61L15/46 A61Q13/00 A61Q15/00 C08L5/16 K61K800/56
K61L300/404 K61L300/622 K61L300/802
US: 502/401 510/102 510/103 510/295 510/438 510/439 510/507
604/359



Family:

Publication number	Publication date	Application number	Application date
AT218374 E	20020615	AT19940910957T	19940317
AU199463663 A1	19941024	AU19940063663	19940317
AU692441 B2	19980611	AU19940063663	19940317
CA2157464 AA	19950901	CA19942157464	19940317
CA2157464 C	20011016	CA19942157464	19940317
DE69430741 D1	20020711	DE19946030741	19940317
DE69430741 T2	20030102	DE19946030741T	19940317
EP0691856 A1	19960117	EP19940910957	19940317
EP0691856 B1	20020605	EP19940910957	19940317
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HK1013032 A1	20030417	HK19980114398	19981221
JP8508424 T2	19960910	JP19940522112T	19940317
KR100322308 B1	20020814	KR19950704223	19940317
KR19960701668 A	19960328	KR19950704223	19940317
KR19967001668 A	19960328	KR19957004223	19940317
NZ263094 A	19980325	NZ19940263094	19940317
SG52314 A1	19980928	SG19960002687	19940317
US5429628 A	19950704	US19930040822	19930331
US5714445 A	19980203	US19960704319	19960912

Priority:

US19930040822 19930331 WO1994US02859 19940317 US19940328645 19941025
 US19960704319 19960912

Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO**Assignee(s):** PROCTER AND GAMBLE CO CINCINNATI ; PROCTER AND GAMBLE CO THE ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; THE PROCTER AND GAMBLE CO ; TRINH TOAN ; CRYOVAC INC ; PHAN DEAN VAN**Inventor(s):** (std): PHAN DEAN V ; PHAN DEAN VAN ; PHAN VAN ; PHAN VAN DEAN ; TRINH TOAN ; TRINH TOAN NMN**Inventor(s):** PHAM DEAN VAN ; DEAN VAN PHAN ; TOAN NMN TRINH**Agent(s):** WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY**Designated states:** AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LI LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA UZ VN**2) Family number: 30670058 (US2004122388A)**

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Title: BREATHABLE MULTILAYER FILMS FOR USE IN ABSORBENT ARTICLES**Abstract:** A multilayer, breathable film that contains a base layer and at least one skin layer is provided. The skin layer is incorporated with a filler that is capable of reducing odor. The base layer may be substantially free of the odor-reducing filler to maintain the integrity of the resulting film. As a result, it has been discovered that the multilayer film of the present invention can be used to reduce odor in a variety of applications, while still maintaining the desired breathability.**Classifications:**

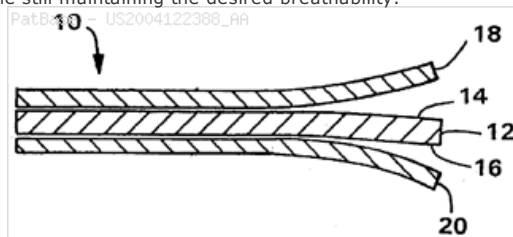
International (IPC 8-9): A61F13/15 A61F5/44 A61L15/46 B29C47/06 B29C55/06 B32B27/08 B32B27/12 B32B27/18 B32B27/20 B32B27/32 B32B3/26 B32B5/02 B32B5/22 B32B5/26 B32B9/02 C08K3/04 C08K3/26 C08L23/08 (Advanced/Invention); B32B3/26 B32B5/22 (Advanced/Non-invention); A61F13/15 A61F5/44 A61L15/16 B32B27/08 B32B27/12 B32B27/18 B32B27/20 B32B27/32 B32B3/26 B32B5/02 B32B5/22 B32B9/02 C08K3/00 C08L23/00 (Core/Invention); A61F A61L B29C B32B C08K C08L (Subclass/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61L15/46 B29C47/06 B29C55/06 B32B27/08 B32B27/32 B32B3/26 B32B5/22 C08K3/04 C08K3/26 C08L23/08

CPC: Y10T428/25 Y10T428/254 A61F13/8405 A61F13/51478 A61F2013/8408 A61L15/46 A61L2300/102 A61L2300/108 A61L2300/608 A61L2300/622 A61L2300/802 B32B27/20 Y10T442/2287 Y10T442/2508 Y10T442/659 Y10T442/66 Y10T442/674 Y10T442/675 Y10T442/68 Y10T442/681 Y10T442/69 Y10T442/699 Y10T428/249953 Y10T428/249955 Y10T428/249978 Y10T428/249986

European: A61F13/15C3 A61F13/514C2 A61F13/84B A61L15/46 B32B27/20 K61F13/84B1 K61L300/102 K61L300/108 K61L300/608 K61L300/622 K61L300/802

US: 428/304.4 428/306.6 428/315.5 428/317.9 428/323 428/327 442/121 442/381 442/382 442/394 442/395 442/400 442/401 442/409 442/417 442/94 604/360 604/360P

**Family:**

Publication number	Publication date	Application number	Application date
AU2003267252 AA	20040729	AU20030267252	20030916
AU2003267252 BB	20081218	AU20030267252	20030916
BRPI0317088 A	20051025	BR2003PI17088	20030916
CN100357096 C	20071226	CN20038025549	20030916
CN1713982 A	20051228	CN20038025549	20030916
EP1575768 A1	20050921	EP20030749723	20030916
JP2006511373 T2	20060406	JP20040564728T	20030916
KR20050085219 A	20050829	KR20057009758	20030916
MXPA05006010 A1	20050818	MX2005PA06010	20030916
US2004122388 AA	20040624	US20020328758	20021223
US7312167 BB	20071225	US20020328758	20021223
WO04060649 A1	20040722	WO2003US29174	20030916
ZA200504609 A	20060927	ZA20050004609	20050606

Priority:

US20020328758 20021223 WO2003US29174 20030916

Probable Assignee: KIMBERLY CLARK CORP**Assignee(s):** (std): KIMBERLY CLARK CO**Assignee(s):** KIMBERLY CLARK CORP ; KIMBERLY CLARK WORLDWIDE INC**Inventor(s):** (std): CHUCK EDMUNDSON ; CHUCK MCCORMACK ANN L QUINCY R ; EDMUNDSON CHARLES EDWARD ; EDMUNDSON CHUCK ; MCCORMACK ANN L ; MCCORMACK ANN LOUISE ; QUINCY ROGER B III ; QUINCY ROGER BRADSHAW ; QUINCY ROGER BRADSHAW III ; QUINCY ROGER B III ; QUINCY III ROGER BRADSHAW**Inventor(s):** QUINCY III ROGER B ; QUINCY ROGER B ; ROGER B ; ROGER BRADSHAW QUINCY III ; ROGER B III QUINCY ; QUINCY ROGER B ; ANN L MCCORMACK ; ANN LOUISE MCCORMACK ; MCCORMACK ANN L QUINCY ROGER B III EDMUNDSON CHUCK**Agent(s):** SPRUSON AND FERGUSON**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW

Title: DUAL ELEMENT ODOR CONTROL IN PERSONAL CARE PRODUCTS

Abstract: An odor control layer for personal care products includes a first portion with a formulation of activated carbon and a second portion with a formulation of nanoparticle silver. The layer can be placed in a personal care product including diapers, training pants, absorbent underpants, adult incontinence products, or feminine hygiene products. The personal care product can include a liquid-permeable bodyside liner, a liquid-impermeable outer cover affixed to the bodyside liner, and an absorbent core disposed between the bodyside liner and the outer cover.

Classifications:

International (IPC 8-9): A01P1/00 A61F13/49 A61F13/496

A61F13/84 A61L15/16 A61L15/18 A61L15/20 A61L15/46

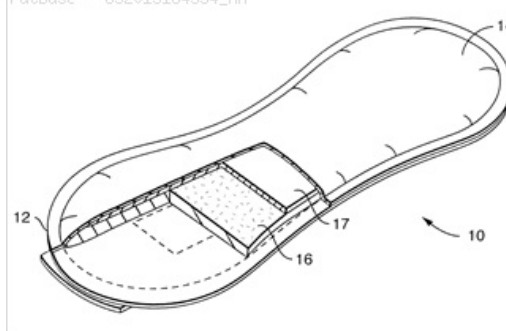
A61L9/014 (Advanced/Invention);

B82Y30/00 (Advanced/Non-invention)

CPC: B82Y30/00 A61L15/16 A61L15/20 A61F13/8405

US: 424/400 424/76.9 604/359 977/773 977/902

PatBase - US2013164334_AA



Family:

Publication number	Publication date	Application number	Application date
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AU2012356270 BB	20160218	AU20120356270	20121204
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BR112014015384 A8	20170613	BR20141115384	20121204
BR112014015384 A8	20170704	BR20141115384	20121204
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GB201410165 A0	20140723	GB20140010165	20121204
GB2511251 A1	20140827	GB20140010165	20121204
KR20140107455 A	20140904	KR20147019616	20121204
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MX345811 B	20170215	MX20140007434	20121204
US2013164334 AA	20130627	US20110336168	20111223
WO13093680 A1	20130627	WO20121B56960	20121204

Priority:

US20110336168 20111223 WO20121B56960 20121204

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Agent(s): SPRUSON AND FERGUSON; FOSTER III R JOSEPH ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: BICOMPONENT MATERIAL

Abstract: A bicomponent material which allows liquids to pass in a first direction, but substantially prevents the liquids from passing in the opposite direction, is disclosed. The material also exposes any gases attempting to pass in the direction opposite to that of the liquid transmission to an odor control lamina. The material is especially suitable for use with articles which deal with bodily fluids and the gases generated therefrom.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49 A61F5/44

A61F5/441 A61L9/00 B01J20/28 B32B27/12 B32B5/18 B32B5/24

B32B5/30 B32B5/32 B32B7/02 B32B9/00 (Advanced/Invention);

A61F5/44 B01J20/28 B32B5/18 B32B7/02 B32B9/00 (Advanced/Non-invention);

A61F13/15 A61F5/441 A61L9/00 B32B27/12 B32B5/22

B32B7/02 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/16 A61F13/18 A61F13/46

A61F13/54 A61F5/44 A61F5/441 A61L15/22 A61L15/46 A61L9/00

B01J20/28 B32B27/06 B32B27/12 B32B27/12 B32B3/10 B32B3/24

B32B3/26 B32B33/00 B32B5/08 B32B5/14 B32B5/18 B32B5/24

B32B5/30 B32B5/30 B32B7/02 B32B9/00

CPC: Y10T428/24322 Y10T428/25 A61F13/8405 A61F2013/51059

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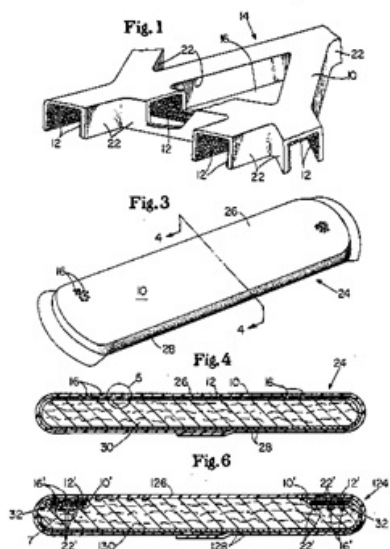
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European: A61F13/511 A61F13/512 A61F13/84B B32B5/32

K61F13/511D6 K61F13/513G5 K61F13/51N K61F13/51N2 K61F13/51P

K61F13/51R K61F13/84B1A K61F13/84B1C K61F13/84B1D



Family:

Publication number	Publication date	Application number	Application date
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AT147962 E	19970215	AT19890201497T	19890615
AT83369 E	19930115	AT19890110859T	19890615
AU198936714 A1	19900104	AU19890036714	19890622
AU639206 B2	19930722	AU19890036714	19890622
CA1325965 A1	19940111	CA19890603512	19890621
CN1041108 A	19900411	CN19891004369	19890623
CN1056971 C	20001004	CN19891004369	19890623
DE68903886 D1	19930128	DE19896003886	19890615
DE68903886 T2	19930506	DE19896003886T	19890615
DE68927711 D1	19970306	DE19896027711	19890615
DE68927711 T2	19970522	DE19896027711T	19890615
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EP0513933 A1	19921119	EP19920201497	19890615
EP0513933 B1	19970122	EP19920201497	19890615
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GR3006570 T3	19930630	GR19920402894T	19921217
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IE63999 B	19950628	IE19890002051	19890623
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IE892051 L	19891223	IE19890002051	19890623
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PH26791 A	19921013	PH19890038834	19890623
TH22468 A	19961224	TH19891000609	19890622
TH9061 B	19990805	TH19891000609	19890622
US5019062 A	19910528	US19880210672	19880623

Priority:

US19880210672 19880623	EP19890110859 19890615	CA19890603512 19890621
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IN1993DE00654 19930628		

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BASF AG ; BRUCE PETER ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE ; RYAN LESLIE D ; PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; BAIRD JAMES C ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; STEINHARDT MARK J ; SPAHNI MILTON D ; PROCTOR AND GAMBLE CO ; THE

Inventor(s): (std): PORCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; PUROKUTAA ANDO GYANBURU CO ZA ; PETER BRUCE ; BASF AKTIENGESellschaft
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Inventor(s): JEEMUZU KURAaku BEAADO ; MAAKU JON SUTEINHAADO ; Ryan ; Milton Daniel ; Mark JohnSpahni ; Leslie DarrylSteinhardt ; etc. ; STEINHARDT MARK JOHN LOVELAND OHIO 45140 US ; SPAHNI MILTON DANIEL OKEANA OHIO 45053 US ; SPAHNI MILTON DANIEL OKEANA OHIO 45033 US ; RYAN LESLIE DARRYL MILLVILLE OHIO 45013 US ; BAIRD JAMES CLARK CINCINNATI OHIO 45223 US ; BAIRD JAMES CLARK B 1180 BRUSSELS BE

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

Designated states: AT BE CH DE ES FR GB GR IT LI LU NL SE

5) Family number: 45003108 (JP2010088530A)

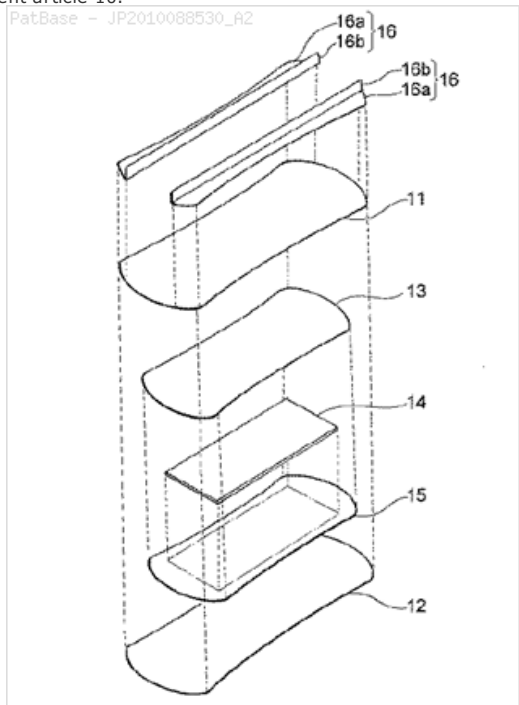
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Title: ABSORBENT ARTICLE

Abstract: PROBLEM TO BE SOLVED: To provide an absorbent article with more improved absorbent performance and more outstanding deodorizing effect. SOLUTION: An absorbent article 10 keeps an absorbent body 14 placed between the front sheet 11 and the back sheet 12, and a deodorant sheet 13 between the front sheet 11 and the absorbent body 14, and a water absorbent sheet 15 between the absorbent body 14 and the back sheet 12. The absorbent body 14 contains a high absorbent polymer and a hydrophilic fiber. The absorbent sheet 15 has a size extending outward from the circumferential edge of the absorbent body 14 in the plane view. The deodorant sheet 13 has a size extending outward from the whole area of the circumferential edge part of the absorbent body 14 in the plane view, and it is joined to the absorbent body 14 with a crimping groove elongating in the longitudinal direction of the absorbent article 10.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472
 A61F13/49 (Advanced/Invention);
 A61F13/15 (Core/Invention)



Family:

Publication number	Publication date	Application number	Application date
JP2010088530 A2	20100422	JP20080259117	20081003
JP5213625 B2	20130619	JP20080259117	20081003

Priority:

JP20080259117 20081003

Probable Assignee: KAO CORP
Assignee(s): (std): KAO CORP
Inventor(s): (std): MAKINO AYAKO ; MATSUI MANABU ; ITO HIDEKAZU
Agent(s): MATSUSHIMA YOSHIYUKI; HATORI OSAMU

6) Family number: 54128148 (US2013158491A)

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Title: ABSORBENT ARTICLE COMPRISING A FRAGRANCE OR ODOR CONTROL COMPOSITION

Abstract: An absorbent article selected from a sanitary napkin, an incontinence pad end a panty liner, comprises a topsheet layer, a backsheet layer, optionally one or more intermediate layers enclosed between the topsheet and the backsheet a fastening adhesive applied on said backsheet garment facing surface and a liquid fragrance or odor control composition applied on or within a layer of said absorbent article. The fastening adhesive and the liquid fragrance or odor control composition are applied in patterns which do not overlap for more than 3 percent of the total surface of the backsheet when the absorbent article is in a flattened configuration and said patterns are seen along a direction perpendicular to the body facing and garment facing surfaces of the article. The resulting articles present reduced degradation of the fastening adhesive layer due to the migration of components of the fragrance or odor control composition into the fastening adhesive

layer.

Classifications:

International (IPC 8-9): A61F A61F13/15 A61F13/47 A61F13/472 A61F13/53 A61F13/56 A61F13/58 A61F13/84 A61L15/46

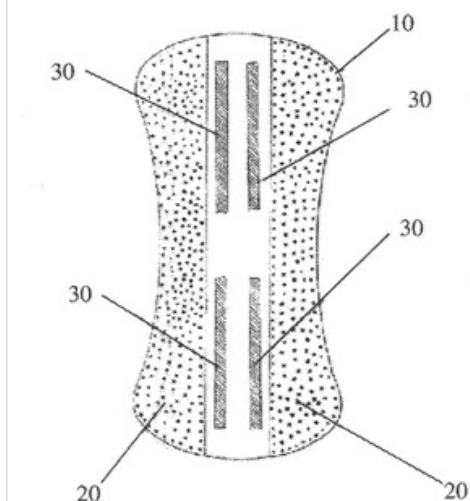
A61M25/02 (Advanced/Invention);

A61F (Subclass/Invention)

CPC: A61F13/5611 A61F2013/5109 A61F2013/8408 A61F13/8405 A61F13/47

US: 427/2.31 604/359

PatBase - US2013158491_AA



Family:

Publication number	Publication date	Application number	Application date
BR112014014636 A2	20170613	BR20141114636	20121217
BR112014014636 A8	20170613	BR20141114636	20121217
BR112014014636 A8	20170627	BR20141114636	20121217
CA2859888 AA	20140619	CA20122859888	20121217
CL2014001634 A1	20141128	CL20140001634	20140619
CN103998001 A	20140820	CN201280062872	20121217
CN103998001 B	20160302	CN201280062872	20121217
EP2793790 A1	20141029	EP20120805903	20121217
IL233155 A0	20140731	IL20120233155	20121217
IN04998DN2014 A	20150320	IN2014DN04998	20140618
JP2015500713 T2	20150108	JP20140547545T	20121217
KR20140091608 A	20140721	KR20147016479	20121217
MX2014007155 A1	20140829	MX20140007155	20121217
RU2014123416 A	20160210	RU20140123416	20121217
SG11201403436S A1	20140730	SG20141103436	20121217
US2013158491 AA	20130620	US20120717847	20121218
WO13096185 A1	20130627	WO2012US70068	20121217

Priority:

US20110557693P 20111220
US20120717847 20121218

US20110577693P 20111220

WO2012US70068 20121217

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; SILVA SEGARRA VANESSA ; DENTI FEDERICA ; PROCTER AND GAMBLE COONE PROCTER & GAMBLE PLAZACINCINNATIONH45224US ; BELLUCCI REMO ; CAPUTI MARIANGELA ; D ERCOLE LUGIA ; DELGADO LILIANA ; PROCTER AND GAMBLE CO

Inventor(s): (std): BELLUCII REMO ; CAPUTI MARIANGELA ; CAPUTI MARIANGELA ; BELLUCCI REMO ; D ERCOLE LUGIA ; LILIANA DELGADO ; LUGIA D ERCOLE ; LUGIA DERCOLE ; MARIANGELA CAPUTI ; REMO BELLUCCI ; SEGARRA VANESSA SILVA ; SILVA SEGARRA VANESSA ; DELGADO LILIANA ; DENTI FEDERICA ; ERCOLE LUGIA D ; FEDERICA DENTI ; VANESSA SILVA SEGARRA

Inventor(s): LILIANA DELGADO ; DENTI FEDERICA ; DERCOLE LUGIA ; DELGADO LILIANE ; SILVA SEGARRA VANESSAUS ; D ERCOLE LUGIAIT ; BELLUCCI REMOIT ; CAPUTI MARIANGELAIT

Agent(s): DIMONCK STRATTON LLP; MBM INTELLECTUAL PROPERTY LAW LLP; LLOVET AHUMADA RAUL; KREMER VERONIQUE MARIE JOSEPHINE; NAGAI HIROSHI; GUFFEY TIMOTHY B

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

7) Family number: 30264155 (WO9939675A1)

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Title: ODOR ABSORBING MATERIAL COMPRISED OF A ZEOLITE BOUND IN A POLYMER MATRIX

Abstract: An odor absorbing material comprised of a zeolite bound in a polymer matrix, with the matrix comprising a polymer having functional groups that react with and thereby bind the zeolite. The odor absorbing material can be extruded into thin films or fibers, thereby making it useful in applications such as tampons, diapers and sanitary napkins. The odor absorbing material can also be used in other applications requiring absorption of odor causing compounds.

Classifications:

International (IPC 8-9): A61F13/15 A61L15/18 (Advanced/Invention); A61F13/15 A61L15/16 (Core/Invention)

International (IPC 1-7): A61F13/15 A61M1/00

CPC: A61L15/24 A61L15/46 A61F13/8405 A61L15/18

European: A61F13/84B A61L15/18

Family:

Publication number	Publication date	Application number	Application date
AU199928673 A1	19990823	AU19990028673	19990204
WO9939675 A1	19990812	WO1999US02760	19990204

Priority:

US19980018521 19980204 WO1999US02760 19990204

Probable Assignee: CAPITOL VIAL INC

Assignee(s): (std): CAPITOL VIAL INC

Inventor(s): (std): HEKAL IHAB M

Inventor(s): IHAB M HEKAL

Designated states: AT AU BE BR CA CH CN CY DE DK ES FI FR GB GR IE IT LU MC NL NZ PT SE

8) Family number: 2984157 (US5161686A)

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Title: ODOR-ABSORBING WEB MATERIAL AND MEDICAL MATERIAL PACKAGES CONTAINING THE WEB MATERIAL

Abstract: Disclosed is an odor-absorbing, non-dusting porous web material and a method of making the same. The web material includes a porous base web (for example, a fibrous base web, such as a non-woven or paper web) having distributed throughout odor-absorbing particulate (such as zeolite). Alkaline salt or alkaline earth oxide particulate, to better effect removal of acidic malodor, desirably also is distributed throughout the base web, in the final product. The odor-absorbing particulate is bound to the base web (e.g., fibers of a fibrous base web) by a binding system, containing a binding agent. The binding system, in the odor-absorbing web materials, is transparent to the odors so as not to substantially effect the ability of the particulate to absorb odor-causing material. The odor-absorbing web material is formed by dipping a porous base web in a saturant slurry containing the odor-absorbing particulate (the slurry including an alkaline salt or alkaline earth oxide) and the binding agent, together with a surfactant; squeezing out excess saturant slurry from the web; and drying. Also disclosed are two specific uses of the odor-absorbing web material: (1) in personal care products such as catamenial devices; and (2) in packages containing medical materials such as hospital gowns, which materials have been sterilized in the sealed package by gamma sterilization.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/472 A61F5/44 A61L15/00 A61L15/18 A61L15/46 A61L2/26 A61L9/01

A61L9/04 (Advanced/Invention);

A61F13/15 A61F13/20 A61F5/44 A61L15/00 (Advanced/Non-invention);

A61F13/15 A61F13/20 A61F5/44 A61L15/00 A61L15/16 A61L2/26

A61L9/01 A61L9/04 (Core/Invention)

International (IPC 1-7): A61B17/06 A61F13/15 A61F13/20 A61F5/44

A61L15/00 A61L15/16 A61L15/18 A61L15/24 A61L15/46 B01J20/04

B01J20/18 B01J20/22 B01J20/24 B01J20/26 B01J20/28 B01J20/30

B01J20/32 B65D D21H

CPC: Y10S206/828 Y10S428/903 Y10S428/913 Y10T428/25

Y10T428/259 A61L15/46 A61L2/26 A61L9/01 A61L9/04 A61L9/042

A61L2300/102 A61L2300/108 Y10T442/2918 Y10T442/621

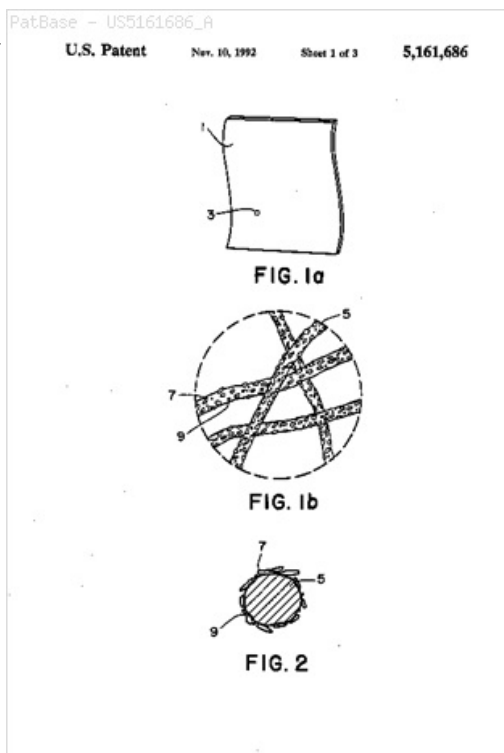
Y10T442/66 A61L2/08 A61L15/18

European: A61L15/46 A61L2/26 A61L9/01 A61L9/04 A61L9/04B

K61L300/102 K61L300/108

US: 128/849 206/440 206/828 428/283 428/284 428/286 428/323

428/331 428/903 428/913 442/171 442/346 442/382 502/60



Family:

Publication number	Publication date	Application number	Application date
AU199053118 A1	19901018	AU19900053118	19900410
AU626655 B2	19920806	AU19900053118	19900410
CA2014204 AA	19901014	CA19902014204	19900409
EP0392528 A2	19901017	EP19900107020	19900412
EP0392528 A3	19911127	EP19900107020	19900412
JP3000057 A2	19910107	JP19900100152	19900416
KR19900015701 A	19901110	KR19900005263	19900413
US5161686 A	19921110	US19890338172	19890414
ZA9002560 A	19910327	ZA19900002560	19900403

Priority:

US19890338172 19890414 CA19902014204 19900409

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): KIMBERLY CLARK CO

Assignee(s): KIMBERLY CLARK CORP ; WEBER MARY G ; WEBER ROBERT E ; YEO RICHARD S ; FITTING STEVEN W ; KIMBERLEY CLARK CORP ; KIMBERLY CLARK A CORP OF DE CORP

Inventor(s): (std): FITTING STEVEN ; FITTING STEVEN W ; MARY G WEBER ; MEARII JII UEEBAA ; RICHARD S YEO ; RICHYIYUO ESU IEO ; ROBAATO II UEEBAA ; ROBERT E WEBER ; STEVEN W FITTING ; SUTETIBUN DABURIYUO FUITSUTEIN ; WEBER MARY G ; WEBER ROBERT E ; YEO RICHARD S

Inventor(s): SUTEIBUN DABURIYUU FUITSUTEINGU ; NAME NOT GIVEN
Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; BORDEN LADNER GERVAIS LLP
Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

9) Family number: 2798200 (EP0389023A2)

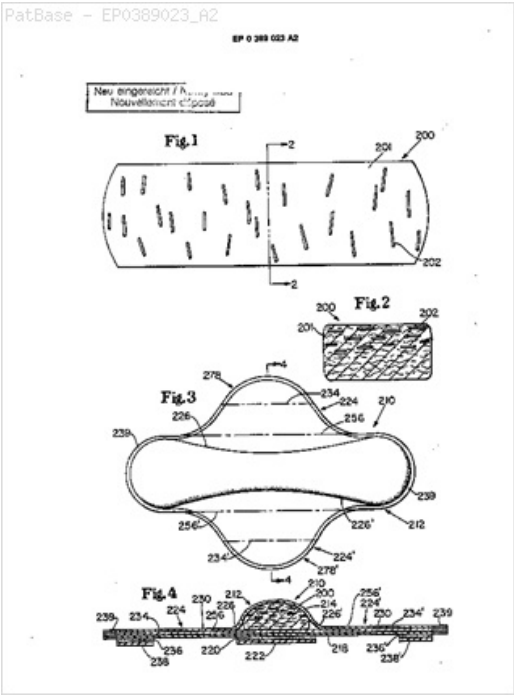
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Title: ABSORBENT STRUCTURES WITH ODOR CONTROL MATERIAL.

Abstract: Absorbent articles such as sanitary napkins, diapers, and the like, comprising a topsheet (212) and an absorbent core (200), are provided with odor-controlling agents (202), especially molecular sieves, in the form of a comminuted sheet material. The sheet form simplifies the handling of the odor-controlling agents and the high-speed manufacture of the finished article. By comminuting the sheet, rather than using it in integral form, the sanitary and aesthetic advantages associated with modern topsheet materials are retained.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49
A61F13/56 A61L15/46 A61L9/01 B01J20/28 (Advanced/Invention);
A61F13/56 A61L9/01 B01J20/28 (Advanced/Non-invention);
A61F13/15 A61L15/16 A61L9/01 B01J20/28 (Core/Invention);
A61F13/56 (Core/Non-invention)
International (IPC 1-7): A61F13/15 A61F13/16 A61F13/46 A61F13/54
A61L15/18 A61L15/22 A61L15/46 A61L9/01 B01J20/28 B32B23/10
B32B23/14 B32B5/02 B32B5/16
CPC: A61F13/476 A61F13/58 A61F13/8405 A61F2013/15926
A61F2013/530007 A61F2013/530481 A61F2013/530569
A61F2013/5307 A61F2013/8414 A61F2013/842 A61F2013/8423
A61F2013/8426 A61L15/46 A61L2300/102 A61L2300/108
A61L2300/404 A61F13/51104 A61F13/512
European: A61F13/476 A61F13/84B A61L15/46 K61F13/15F2
K61F13/15M11G K61F13/511D6 K61F13/513G5 K61F13/53L
K61F13/53Q K61F13/53Q3 K61F13/53Q6 K61F13/58 K61F13/84B1B
K61F13/84B1C K61F13/84B1D K61F13/84B1E K61L300/102
K61L300/108 K61L300/404



Family:

Publication number	Publication date	Application number	Application date
AU199051464 A1	19900920	AU19900051464	19900320
AU620225 B2	19920213	AU19900051464	19900320
BRPI9001300 A	19910402	BR1990PI01300	19900320
CA2011670 AA	19900920	CA19902011670	19900307
CN1046093 A	19901017	CN19901002293	19900320
EP0389023 A2	19900926	EP19900200545	19900308
EP0389023 A3	19910911	EP19900200545	19900308
FI901355 A0	19900319	FI19900001355	19900319
JP3000058 A2	19910107	JP19900071764	19900320
KR19900013928 A	19901022	KR19900003634	19900319
MA21775 A1	19901001	MA19900022039	19900319
NZ232976 A	19930526	NZ19900232976	19900319
PT93466 A	19901107	PT19900093466	19900316

Priority:

US19890325619 19890320 CA19902011670 19900307

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BENSON DOUGLAS H ; FURIO DIANE L ; JOHNSON THERESA L ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE COMPANY THE ; PROCTER AND GAMBLE CO

Inventor(s): (std): BENSON DOUGLAS H ; BENSON DOUGLAS HERRIN ; BENSON H DOUGLAS ; DAGURASU HERIN BENSON ; DAIAN RIN FURIO ; FURIO DIANE L ; FURIO DIANE LYNN ; JOHNSON L THERESA ; JOHNSON THERESA L ; JOHNSON THERESA LOUISE ; TERESA RUIZU JIYONSON

Inventor(s): THERESA LOUISE JOHNSON ; JOHNSON L THERESA ; DIANE LYNN FURIO ; DOUGLAS HERRIN BENSON ; BENSON HDOUGLAS

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

10) Family number: 43732218 (RU2360406C)

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Title: PREPARATION FOR CONTROL OVER TERRITORIAL MARKS OF DOMESTIC CAT

Abstract: FIELD: animal breeding. SUBSTANCE: preparation refers to control over territorial marks of domestic cat. The preparation contains an analogue of pheromones of cat facial glands, attractant and neutraliser of urinary odour at specified ratio of components. As analogue of pheromones of cat facial glands it contains oleic acid of pheromone purity or mixture of fat acids, or their derivatives. As attractant it contains extract of natural attractants or their active substances, or synthetic derivatives, or their mixtures. As neutraliser of urinary odour it contains water mixture consisting of absorber of urinary odour, of surface active substance, of low molecular alcohol or glycol and preservative at specified ratio of components. EFFECT: reduced time for arresting marks of animals and reduced concentration of expensive pheromone analogue. 4 cl, 11 ex

Classifications:

International (IPC 8-9): A01K1/01 A01K23/00 A01N37/02 A01N37/06 A61L9/01 A61L9/013 (Advanced/Invention); A01K1/01 A01K23/00 A01N37/02 A01N37/06 A61L9/01 (Core/Invention)

Family:

Publication number	Publication date	Application number	Application date
RU2360406 C1	20090710	RU20080105407	20080215

Priority:

RU20080105407 20080215

Probable Assignee: KORNEVA OL GA SEMENOVNA

Assignee(s): (std): KORNEVA OL GA SEMENOVNA ; MENCHIKOV LEONID GENNAD EVICH ; NIKOLAEV VIKTOR ANATOL EVICH

Inventor(s): (std): KORNEVA OL GA SEMENOVNA ; MENCHIKOV LEONID GENNAD EVICH ; NIKOLAEV VIKTOR ANATOL EVICH

Inventor(s): NIKOLAEV VIKTOR ANATOL'EVICH ; MENCHIKOV LEONID GENNAD'EVICH ; KORNEVA OL'GA SEMENOVNA

11) Family number: 8486224 (US5397316A)

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Title: Slitted absorbent members for aqueous body fluids formed of expandable absorbent materials

Abstract: This application relates to the use of slitted regions in absorbent members formed of absorbent materials that remain relatively thin until wetted with such fluids. Suitable materials include presently preferred varieties of polymeric foam materials. Single and multi-layered absorbent members incorporating slitted regions are disclosed, as well as the use of pre-formed cup-shaped slits for enhanced initial fluid acquisition. Such slitted regions in combination with planar expansion properties enable the absorbent members to respond dynamically to various fluid loading conditions to create useful structural features. The slitted regions, in combination with absorbent materials having expansion potential in at least one direction within the plane of the absorbent member, cause the slitted regions to buckle and/or deform out of the plane of the absorbent member, thereby causing the slit surfaces to displace angularly and/or translationally with respect to one another. This more fully exposes the slit surfaces to the incoming fluid for improved acquisition capabilities. The use of pre-formed cup-shaped slits enables the absorbent member to more quickly capture and absorb aqueous body fluids, and is particularly useful for containment and dewatering of moist or runny fecal material and higher viscosity fluids and/or those having a higher concentration of particulate material therein such as blood, menses, or wound fluids.

Classifications:

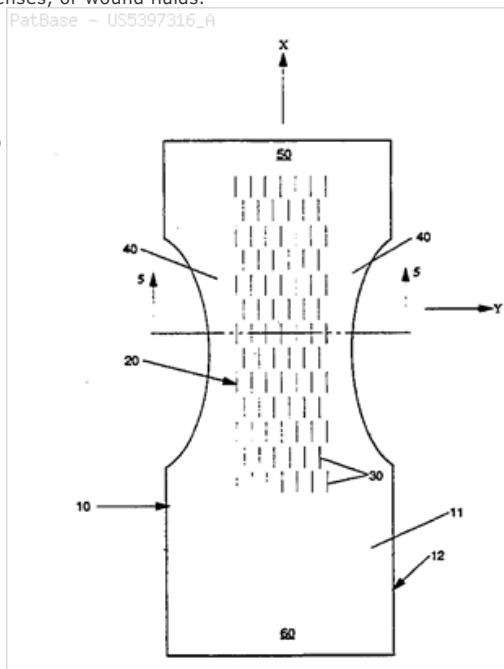
International (IPC 8-9): A61F13/15 A61F13/49 A61F13/53 A61F5/44 A61L15/16 B01J20/26 (Advanced/Invention); A61F13/15 A61F5/44 (Advanced/Non-invention); A61F13/15 A61F5/44 B01J20/22 (Core/Invention); A61F13/15 A61L15/16 (Core/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/46 A61F13/49 A61F13/53 A61F5/44 B01J20/26

CPC: A61F13/535 A61F13/5376 A61F2013/15325 A61F2013/15357 A61F2013/15422 A61F2013/15487 A61F2013/15495 A61F2013/1552 A61F2013/49079 A61F2013/53721 A61F2013/53765 A61F2013/530007 A61F2013/530131 A61F2013/530481 A61F2013/530489 A61F2013/530817 A61F2013/530839 A61F2013/530854 A61F2013/530861

European: A61F13/535 A61F13/537D K61F13/15J8A4 K61F13/15J8C K61F13/15J8H K61F13/15J8P K61F13/15J8P1 K61F13/15J8P5 K61F13/49H7 K61F13/537B5 K61F13/537E K61F13/53L K61F13/53M K61F13/53Q K61F13/53Q1 K61F13/53R1A K61F13/53R2 K61F13/53R4 K61F13/53R5

US: 604/358 604/368 604/369 604/378 604/382 604/385.101



Family:

Publication number	Publication date	Application number	Application date
AU199472024 A1	19950117	AU19940072024	19940526
AU696126 B2	19980903	AU19940072024	19940526
BRPI9406974 A	19960326	BR1994PI06974	19940526
CA2164586 AA	19951206	CA19942164586	19940526
CA2164586 C	20000125	CA19942164586	19940526
CL1994000921 A1	19950718	CL19940000921	19940624
CL39272 B	19970515	CL19940000921	19940624
CN1129395 A	19960821	CN19941093140	19940526
CZ288496 B6	20010613	CZ19950003462	19940526
CZ9503462 A3	19960717	CZ19950003462	19940526
DE69429457 D1	20020124	DE19946029457	19940526

DE69429457 T2	20020718	DE19946029457T	19940526
EG20388 A	19990228	EG19940000371	19940623
EP0774941 A1	19970528	EP19940921215	19940526
EP0774941 B1	20011212	EP19940921215	19940526
ES2164712 T3	20020301	ES19940921215T	19940526
FI956275 A	19960220	FI19950006275	19951227
FI956275 A0	19951227	FI19950006275	19951227
HU219003 B	20010129	HU19950003767	19940526
HU74129 A2	19961128	HU19950003767	19940526
HU9503767 A0	19960328	HU19950003767	19940526
JP3369184 B2	20030120	JP19950502829T	19940526
JP8511724 T2	19961210	JP19950502829T	19940526
KR19960702998 A	19960619	KR19950705886	19940526
NO955247 A	19960226	NO19950005247	19951222
NO955247 A0	19951222	NO19950005247	19951222
NZ268721 A	19980626	NZ19940268721	19940526
PE24595 A1	19950915	PE19940245228	19940623
PH31104 A	19980210	PH19940048474	19940617
RU96101996 A	19980327	RU19960101996	19960125
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TH16366 A	19950817	TH19941001299	19940624
TR28268 A	19960417	TR19940000679	19940624
TW272122 B	19960311	TW19940106813	19940726
US5397316 A	19950314	US19930082861	19930625
VN1035 A1	19991227	VN19960001692	19960118
WO9500091 A1	19950105	WO1994US05979	19940526

Priority:

US19930082861 19930625 WO1994US05979 19940526

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE ; PROCTER AND GAMBLE CO

Assignee(s): THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE CO ; ROE DONALD CARROLL ; TAYLOR GREGORY WADE ; THE PROCTER AND GAMBLE COUS ; YOUNG GERALD ALFRED ; ANDES WILLIAM SCOTT ; LAVON GARY DEAN

Inventor(s): (std): ALFRED YOUNG GERALD ; ANDES SCOTT ; ANDES WILLIAM S ; ANDES WILLIAM SCOTT ; DEAN LAUON GARY ; LAVON GARY D ; LAVON GARY DEAN ; ROE CARROLL ; ROE DONALD C ; ROE DONALD CARROLI ; ROE DONALD CARROLL ; TAYLOR GREGORY W ; TAYLOR GREGORY WADE ; TAYLOR WADE ; LAVON DEAN ; WADE TAYLOR GREGORY ; YOUNG ALFRED ; YOUNG GERALD A ; YOUNG GERALD ALFRED ; YOUNG GERARD ALFRED

Inventor(s): YOUNG GERALD ; William Scott ; WILLIAM SCOTT ANDES ; LAVON GARY ; VON LA GARY D ; ROE DONALD YANDES WILLIAM ; TAYLOR GREGORY ; Donald CarrolAndes ; DONALD CARROLL ROE ; GARY DEAN LAVON ; Gary DeanYoung ; Gerald Alfred Taylor ; GERALD ALFRED YOUNG ; GREGORY WADE TAYLOR ; Gregory WadeRoe ; LAUON GARY DEAN ; Lavon

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY; HARNECKER

Designated states: AT AU BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK ES FI FR GA GB GE GN GR HU IE IT JP KG KP KR KZ LK LU LV MC MD MG ML MN MR MW NE NL NO NZ PL PT RO RU SD SE SI SK SN TD TG TJ TT UA UZ VN

12) Family number: 29238234 (US5407442A)

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Title: CARBON-CONTAINING ODOR CONTROLLING COMPOSITIONS

Abstract: Compositions comprise carbon particles combined with white odor-controlling agents by means of binders. The preferred particle form of the compositions is substantially lighter in color than the original carbon, and the resulting particles are preferred for use in the manufacture of catamenials, diapers, bandages, and the like. Particles comprising carbon coated with zeolites are not only desirably lighter in color, but also control a broad spectrum of malodors associated with body fluids.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49

A61L15/18 A61L15/46 A61L9/01 (Advanced/Invention);

A61F13/15 (Advanced/Non-invention);

A61F13/15 A61L15/16 A61L9/01 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/20 A61F13/40

A61F13/472 A61L09/01 A61L15/00 A61L15/16 A61L15/18 A61L15/46

A61L9/01 B01J20/20 B01J20/28

CPC: A61L9/01 A61L15/18

European: A61L15/18 A61L9/01

US: 424/688 424/724 424/76.3 424/763 604/358 604/359 604/360

604/364 604/365 604/368

END

Family:

Publication number	Publication date	Application number	Application date
AT128630 E	19951015	AT19910904679T	19910131
AU199173092 A1	19910903	AU19910073092	19910131
AU658137 B2	19950406	AU19910073092	19910131
BRPI9106041 A	19930302	BR1991PI06041	19910131
CA2071834 AA	19920615	CA19912071834	19910131
CA2071834 C	19940920	CA19912071834	19910131
CN1054902 A	19911002	CN19911001504	19910212
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CN1112940 C	20030702	CN19991020581	19990928
CN1262132 A	20000809	CN19991020581	19910212
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FI104050 B	19991115	FI19920003594	19920811
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FI923594 A0	19920811	FI19920003594	19920811
GR3017658 T3	19960131	GR19950402516T	19951005
HK98696 A	19960614	HK19960000986	19960606
IE69653 B	19961002	IE19910000445	19910211
IE910445 A1	19910814	IE19910000445	19910211
JP3046065 B2	20000529	JP19910504497	19910131
JP5503452 T2	19930610	JP19910504497T	19910131
KR0157599 B1	19990201	KR19920071927	19920811
KR100157599 B1	19990201	KR19920701927	19910131
KR19927003128 A	19921217	KR19927001927	19910131
MA22060 A1	19911001	MA19910022333	19910212
NZ237070 A	19931223	NZ19910237070	19910211
PE22991 A1	19910817	PE19910181484	19910211
PT96735 A	19911031	PT19910096735	19910211
PT96735 B	19980731	PT19910096735	19910211
SA227 B1	20040904	SA19910110301	19910409
TH10352 A	19920101	TH19911000165	19910212
TH12403 B	20020409	TH19911000165	19910212
US5407442 A	19950418	US19930156511	19931123
WO9112030 A1	19910822	WO1991US00691	19910131

Priority:

US19900478803	19900212	WO1991US00691	19910131	WO1991US00691	19910131
WO1991US00691	19910131	US19910693889	19910501	US19930156511	19931123

Probable Assignee: PROCTER AND GAMBLE CO**Assignee(s):** (std): KARAPASHA NANCY ; PROCTER AND GAMBLE ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY**Assignee(s):** THE PROCTER AND GAMBLE COMPANY CINCINNATI OHIO US ; THE PROCTOR AND GAMBLE COMPANY ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE**Inventor(s):** (std): KALAPASHA NANHI ; KARAPASHA N ; KARAPASHA NANCY ; NANHI KALAPASHA ; NANCY KARAPASHA ; N KARAPASHA ; KARABACHA NANCY

Inventor(s): KARAPASHA NANCY FAIRFIELD OH 45014 US
Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY
Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IT JP KR LI LU NL SE

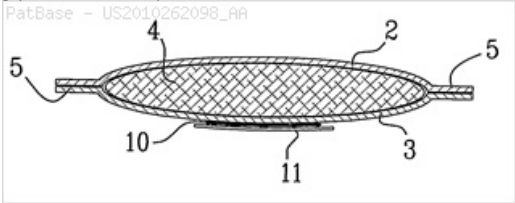
13) Family number: 43471347 (US2010262098A) © PatBase

Title: ABSORBENT ARTICLE WITH ODOUR CONTROL SUBSTANCE

Abstract: An absorbent article such as a sanitary napkin, panty liner, diaper, pant diaper, adult incontinence guard, includes oxidized lipids as an odour control substance. Preferably the lipids are oxidized under controlled conditions to have a peroxide number of at least 20 meq/kg. The lipids are for example triglycerides of fatty acids.

Classifications:

International (IPC 8-9): A61F13/15 A61L15/20 A61L15/34
A61L15/46 (Advanced/Invention);
A61F13/15 A61L15/16 (Core/Invention)
CPC: A61L15/46 A61L15/20 A61L2300/212 A61L2300/22
European: A61L15/20 A61L15/46 K61L300/212 K61L300/220
US: 604/359 604/359P



Family:

Publication number	Publication date	Application number	Application date
AU2007362877 AA	20090702	AU20070362877	20071221
AU2007362877 BB	20130725	AU20070362877	20071221
BRPI0722306 A2	20140422	BR2007PI22306	20071221
CN101903048 A	20101201	CN200780102056	20071221
CN101903048 B	20130522	CN200780102056	20071221
DE602007035946 D1	20140515	DE200760035946T	20071221
EP2229188 A1	20100922	EP20070852153	20071221
EP2229188 A4	20121121	EP20070852153	20071221
EP2229188 B1	20140402	EP20070852153	20071221
RU2441671 C1	20120210	RU20100130540	20071221
US2010262098 AA	20101014	US20070741906	20071221
WO09082287 A1	20090702	WO2007SE01159	20071221
WO09082287 A8	20100715	WO2007SE01159	20071221

Priority:

EP20070852153 20071221 RU20100130540 20071221 WO2007SE01159 20071221

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): ANDREASSON BO ; FORSGREN BRUSK ULLA ; MALMGREN KENT ; SCA HGIENE PRODUCTS AB ; SCA HYGIENE PROD AB ; STRIDFELDT CHATRINE

Assignee(s): SKA KHAJDZHIN PRODAKTS AB ; SCA HYGIENE PRODUCTS AB

Inventor(s): (std): ANDREASSON BO ; BO ANDREASSON ; BRUSK ULLA FORSGREN ; CHATRINE STRIDFELDT ; FORSGREN BRUSK ULLA ; KENT MALMGREN ; MALMGREN KENT ; STRIDFELDT CHATRINE ; STRIDFEL DT KATRIN ; MAL MGREN KENT

Inventor(s): STRIDFEL'DT KATRIN ; ULLA FORSGREN BRUSK ; MAL'MGREN KENT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; VALEA AB; BUCHANAN INGERSOLL AND ROONEY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

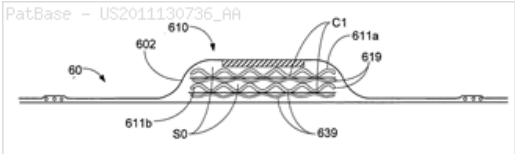
14) Family number: 48873364 (US2011130736A) © PatBase

Title: DISPOSABLE ABSORBENT ARTICLE WITH PROFILED ABSORBENT CORE

Abstract: A disposable absorbent article has a central body defining a first waist end region including a first end edge, a second waist end region spaced longitudinally from the first waist end region and including a second end edge, and a crotch region positioned therebetween. An absorbent core is situated between the end edges, and includes a plurality of elastics incorporated therewith such that the core is substantially laterally contracted in a narrowed region about the elastics. The absorbent core includes at least one end region that is substantially non-elasticized and has a lateral width substantially wider than that of the narrowed region.

Classifications:

International (IPC 8-9): A61F A61F13/15 A61F13/47 A61F13/49
A61F13/494 A61F13/495 A61F13/496 A61F13/53 A61F13/532
A61F13/533 A61F13/535 A61F13/539 (Advanced/Invention);
A61F13/15 (Core/Invention)
CPC: A61F13/5323 A61F13/49017 A61F13/49426 A61F13/533
A61F13/535 A61F2013/5355 A61F13/539 A61F13/49058
A61F13/49019 A61F13/496 A61F13/495 A61F2013/49074
A61F2013/53791
European: A61F13/494A1B A61F13/49D2E
US: 604/378 604/378P 604/385.01 604/385.16 604/385.21



Family:

Publication number	Publication date	Application number	Application date
AU2010315930 AA	20110512	AU20100315930	20101028

AU2010315930 BB	20160331	AU20100315930	20101028
AU2016203780 AA	20160630	AU20160203780	20160607
AU2018229518 AA	20181011	AU20180229518	20180913
BR112012010226 A2	20170711	BR20121110226	20101028
CA2779269 AA	20110512	CA20102779269	20101028
CA2779269 C	20190108	CA20102779269	20101028
CN102695483 A	20120926	CN201080060445	20101028
CN102695483 B	20160525	CN201080060445	20101028
CN106389012 A	20170215	CN201610297940	20101028
EP2493440 A1	20120905	EP20100828653	20101028
EP2493440 A4	20131120	EP20100828653	20101028
HK1175983 A1	20130719	HK20130103496	20130320
HK1175983 B	20170901	HK20130103496	20130320
HK1234304 A1	20180215	HK20170108103	20130320
MX2012005032 A1	20120803	MX20120005032	20101028
MY161858 A	20170515	MY20120700233	20101028
SG10201407001T A1	20141127	SG20141007001	20101028
SG10201804504S A1	20180730	SG20181004504	20101028
TH120479 A	20130128	TH20121001980	20101028
US2011130736 AA	20110602	US20100925765	20101028
US2014213997 AA	20140731	US20140163763	20140124
US2017224548 AA	20170810	US20170435991	20170217
US8702671 BB	20140422	US20100925765	20101028
US9603754 BB	20170328	US20140163763	20140124
WO11056205 A1	20110512	WO2010US02858	20101028

Priority:

US20090279923P	20091028	AU20100315930	20101028	CN201080060445	20101028
US20100925765	20101028	WO2010US02858	20101028	HK20130103496	20130320
US20140163763	20140124	AU20160203780	20160607	US20170435991	20170217
AU20180229518	20180913				

Probable Assignee: DSG TECHNOLOGY HOLDINGS LTD

Assignee(s): (std): DSG TECH HOLDINGS LTD ; DSG TECHNOLOGY HOLDINGS LTD ; SMID ANNE ; TSANG PATRICK KING YU ; WRIGHT ANDREW C ; VARONA EUGENIO ; VARONA EUGENIO G

Inventor(s): (std): SMID ANNE ; TSANG PATRICK KING YU ; WRIGHT ANDREW C ; VARONA EUGENIO ; VARONA EUGENIO G ; PATRICK KING YU TSANG ; EUGENIO VARONA ; ANDREW C WRIGHT ; ANNE SMID ; YU TSANG PATRICK KING ; EUGENIO GO VARONA ; TSANG PATRICK ; WRIGHT ANDREW

Agent(s): PIZZEYS PATENT AND TRADE MARK ATTORNEYS; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; BORDEN LADNER GERVAIS LLP; PRICE NIGEL JOHN KING; SHANGHAI INTELLECTUAL PROPERTY OFFICE; NANYANG LAW LLC; AMATONG LAW FIRM PLLC; ALBERTO Q; AMATONG MCCOY LLC; AMATONG ALBERTO Q JR

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

15) Family number: 41931369 (US2008142023A)

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Title: BIOCOMPATIBLE ANTIMICROBIAL COMPOSITIONS

Abstract: Antimicrobial compositions comprising aliphatic polyester, and an antimicrobial component effective for antimicrobial activity, and, in some embodiments, an enhancer. Example: blend of poly(lactic acid) polymer (55g) with propyleneglycol monolaurate antimicrobial component (9g), and benzoic acid enhancer (1g). Inventive resin compositions are effective against gram negative and gram positive bacteria, mold and mildew. Preferred compositions comprise materials that are GRAS (Generally Regarded As Safe).

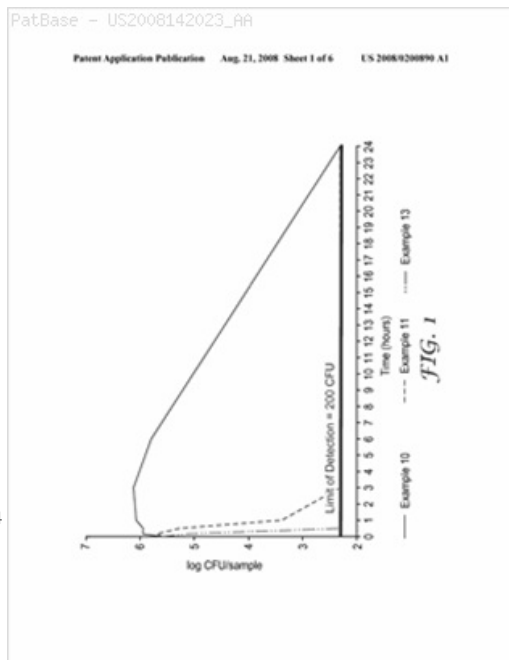
Classifications:

International (IPC 8-9): A01N25/10 A01N25/30 A01N33/02 A01N37/02 A01P1/00 A61B17/00 A61B19/00 A61B19/08 A61F13/15 A61F13/20 A61F13/42 A61F13/49 A61F13/51 A61F13/53 A61K31/08 A61K31/13 A61K31/19 A61K31/215 A61K31/7024 A61K47/10 A61K47/12 A61K47/14 A61K47/18 A61K47/20 A61K47/24 A61K9/70 A61L15/22 A61L15/44 A61L15/46 A61L17/00 A61L27/00 A61L29/00 A61L29/06 A61L29/16 A61L31/00 A61L31/06 A61L31/16 A61M25/00 A61P31/04 A61P31/12 B32B27/18 C08K9/04 C08L67/00 D01F6/92 D04H1/42 D04H3/00 D04H3/16 (Advanced/Invention); A61B17/00 A61K31/08 A61K31/13 A61K31/19 A61K31/215 A61K31/7024 A61K47/10 A61K47/12 A61K47/14 A61K47/18 A61K47/20 A61K47/24 A61K9/70 A61P31/04 A61P31/12 (Advanced/Non-invention); A01N25/10 A01N37/02 A01P1/00 A61B19/00 A61F13/15 A61F13/20 A61K31/075 A61K31/13 A61K31/185 A61K31/21 A61K31/7024 A61K47/10 A61K47/12 A61K47/14 A61K47/16 A61K47/20 A61K47/24 A61K9/70 A61L15/16 A61L17/00 A61L27/00 A61L29/00 A61L31/00 A61M25/00 A61P31/00 B32B27/18 C08K9/00 C08L67/00 (Core/Invention)

CPC: D01F1/10 D01F1/103 D01F6/625 D01F6/92 A61F13/15252 A61F2013/8414 A61L15/26 A61L15/62 A61L2300/216 A61L2300/22 A61L2300/604 A61L2300/802 Y10T442/2525 A61L31/16 A61B46/00 A61B2017/00889 A61L29/06 A61L29/16 A61L31/06 A61L2300/404 A01N25/30 A01N25/34 A01N33/12 A01N37/10 A01N37/12 C08L67/04 A01N25/10 A61L15/46

European: A01N25/10 A61B19/08 A61F13/15J4 A61L15/26 A61L15/46 A61L15/62 A61L29/06 A61L29/16 A61L31/06 A61L31/16 K61B17/00S20 K61F13/84B1B K61L300/216 K61L300/220 K61L300/404 K61L300/604 K61L300/802

US: 128/849 442/123 442/123S 514/558 514/558S 604/360 604/360P 604/370 604/370S 604/385.17 604/385.170S



Family:

Publication number	Publication date	Application number	Application date
BRPI0720216 A2	20131224	BR2007PI20216	20071114
BRPI0911122 A2	20150804	BR2009PI11122	20090403
CN101557708 A	20091014	CN200780045802	20071114
CN101557708 B	20150114	CN200780045802	20071114
CN102046213 A	20110504	CN200980120010	20090403
CN104304243 A	20150128	CN201410531798	20071114
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EP2101572 A2	20090923	EP20070874273	20071114
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EP2274021 A2	20110119	EP20090731460	20090403
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JP2011517976 T2	20110623	JP20110504084T	20090403
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KR20090098807 A	20090917	KR20097011968	20071114
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US2008142023 AA	20080619	US20060609237	20061211
US2008200890 AA	20080821	US20080098517	20080407
US9555167 BB	20170131	US20060609237	20061211
WO08133724 A2	20081106	WO2007US84625	20071114
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WO09126512 A3	20091210	WO2009US39375	20090403

Priority:

US20060609237 20061211 CN200780045802 20071114 EP20070874273 20071114
WO2007US84625 20071114 US20080098517 20080407 WO2009US39375 20090403

Probable Assignee: 3M CO

Assignee(s): (std): ANDERSON KELLY S ; AUSEN RONALD W ; JENNEN JAY M ; PORBENI FRANCIS E ; PETERSON ROBERT W ; SCHOLZ MATTHEW T ; SCHMID MATTHEW J ; SATTERWHITE ERIN A ; 3M CO ; 3M CO MINNESOTA MINING AND MFG COMPANY ; 3M INNOVATIVE PROPERTIES CO

Assignee(s): 3M INNOVATIVE PROPERTIES CO SAINT PAUL ; 3M INNOVATIVE PROPERTIES COMPANY

Inventor(s): (std): AUSEN RONALD W ; JENNEN JAY M ; MAKI ROBERT J ; ANDERSON KELLY S ; MEULNERS ERIN A ; PORBENI FRANCIS E ; PETERSON ROBERT W ; SATTERWHITE ERIN A ; SCHMID MATTHEW J ; SCHOLTZ MATTHEW T ; SCHOLZ MATTHEW T ; STATHAM ALEXIS S ; WOOD LEIGH E ; YARWOOD JEREMY M

Inventor(s): SCHOLZ MATTHEW T SAINT PAUL ; ALEXIS S STATHAM ; SCHMID MATTHEW J SAINT PAUL ; PETERSON ROBERT W SAINT PAUL ; ROBERT J MAKI ; ROBERT W PETERSON ; RONALD W AUSEN ; MEULNERS ERIN A SAINT PAUL ; ANDERSON KELLY S SAINT PAUL ; MATTHEW J SCHMID ; MATTHEW T SCHOLTZ ; MATTHEW T SCHOLZ ; JENNEN JAY M SAINT PAUL ; JEREMY M YARWOOD ; KELLY S ANDERSON ; LEIGH E WOOD ; AUSEN RONALD W SAINT PAUL ; ERIN A MEULNERS ; ERIN A SATTERWHITE ; FRANCIS E PORBENI ; JAY M JENNEN

Agent(s): VOSSIUS AND PARTNER; VOSSIUS AND PARTNER PATENTANWALTE RECHTSANWALTE MBB; 3M INNOVATIVE PROPERTIES COMPANY; 3M INNOVATIVE PROPERTIES CO; BRONK JOHN M ET AL; HUNSBERGER LYNN R ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

16) Family number: 41934433 (US2010062031A)

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Title: ANTIBACTERIAL SHEET AND ABSORBENT ARTICLE

Abstract: Disclosed is an antibacterial sheet including an antibacterial composition and a sheet-like base member with the antibacterial composition attached thereto. In the antibacterial sheet, a composition including an antibacterial agent and a water-soluble thermoplastic polymer which is solid at a normal temperature and which dissolves in a body fluid is used as the antibacterial composition.

Classifications:

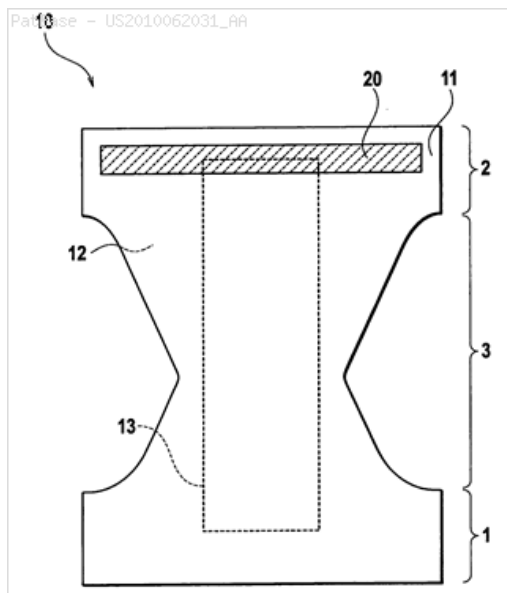
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A61F13/15 A61F13/472 A61F13/49 A61F5/44 A61L15/00
A61L15/46 (Advanced/Invention);
A01N25/08 A01N25/10 A01N25/34 A61F13/15 A61F5/44 A61L15/00
A61L15/16 (Core/Invention)

International (IPC 1-7): A01N25/10 A61F5/44

CPC: A61F13/8405 A61F2013/51047 A61F2013/8414 A61K31/00
A61L2300/404 A61L15/46 A01N25/10 A01N25/34

European: A01N25/10 A01N25/34 A61F13/84B A61K31/00
A61K35/64 A61K38/16 A61L15/46 K61F13/51M7D K61F13/84B1B
K61L300/404

US: 424/405 424/405P 424/411 604/360



Family:

Publication number	Publication date	Application number	Application date
AU2007330862 AA	20080619	AU20070330862	20071130
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CN101562970 B	20130710	CN200780046177	20071130
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EP2110018 A1	20091021	EP20070832845	20071130
EP2110018 A4	20120919	EP20070832845	20071130
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IN284210 B	20170616	IN2009KN02241	20090616
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US2010062031 AA	20100311	US20070448261	20071130
US8476483 BB	20130702	US20070448261	20071130
WO08072487 A1	20080619	WO2007JP73148	20071130

Priority:

JP20060335936 20061213 WO2007JP73148 20071130

Probable Assignee: UNICHARM CORP

Assignee(s): (std): HISANAKA TAKAYUKI ; SAKAGUCHI SATORU ; UNI CHARM CORP ; UNICHARM CORP ; YOSHIMASA WATARU

Assignee(s): UNI CHARM CO LTD

Inventor(s): (std): HISANAKA TAKAYUKI ; SAKAGUCHI SATORU ; SAKAGUCHI SATOSHI ; SATORU SAKAGUCHI ; TAKAYUKI HISANAKA ; WATARU YOSHIMASA ; YOSHIMASA WATARU

Agent(s): PHILLIPS ORMONDE FITZPATRICK; OGILVY RENAULT LLP SENCRL SRL; FITCHETT STUART PAUL; MIYOSHI HIDEKAZU; BUTZEL LONG,IP DOCKETING DEPT; BUTZEL LONG IP DOCKETING DEPT; BRINKS HOFER GILSON AND LIONE; MIYOSHI HIDEKAZU ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

17) Family number: 10614474 (WO9801300A1)

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Title: COATING AND METHOD OF PRODUCTION THEREOF

Abstract: A coating and a method of producing it are disclosed. The coating comprises a polymer layer (9), which is extrusion-coated on a substrate (1), the coating being characterised in that it comprises particles (11) of an essentially hydrophobic aluminium silicate zeolite located between the substrate (1) and the polymer layer (9) extrusion-coated thereon, and that the zeolite has a pore diameter of at least 5.5 ÅNGSTROM, a molar ratio Si/Al in the crystal lattice of at least 35, and a sorption capacity for water at 25 degrees centigrade and 4.6 torr below 10 percent by weight. When producing the coating (13), particles (11) of the above zeolite are introduced between the polymer layer (9) and the substrate (1) before the polymer layer (9) is extrusion-coated on the substrate (1). Preferably, the zeolite particles (11) are sprinkled on the substrate surface just before this is brought into contact with the extruded polymer layer (9).

Classifications:

International (IPC 8-9): B32B27/14 B32B27/20

B32B37/15 (Advanced/Invention);

B32B27/14 (Advanced/Non-invention);

B32B27/14 B32B27/20 B32B37/14 (Core/Invention)

International (IPC 1-7): B05D B05D1/00 B05D1/36 B32B27/14

B32B5/16 B65D65/40

CPC: B32B27/06 B32B27/32 B32B2264/102 B32B2323/04

B32B27/20 B32B37/153 B32B2305/30

European: B32B27/20 B32B31/30 B32B37/15B L32B305/30

1/1

FIG 1

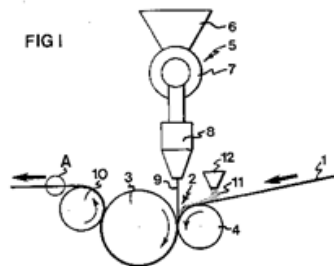
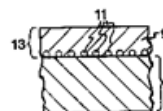


FIG 2

**Family:**

Publication number	Publication date	Application number	Application date
AU199736375 A1	19980202	AU19970036375	19970702
EP0909238 A1	19990421	EP19970933091	19970702
NO990018 A	19990225	NO19990000018	19990104
NO990018 A0	19990104	NO19990000018	19990104
SE506874 C2	19980223	SE19960002660	19960705
SE9602660 A	19980106	SE19960002660D	19960705
SE9602660 A0	19960705	SE19960002660	19960705
SE9602660 L	19980106	SE19960002660	19960705
WO9801300 A1	19980115	WO1997SE01197	19970702

Priority:

SE19960002660 19960705 WO1997SE01197 19970702

Probable Assignee: BOREALIS AS**Assignee(s):** (std): BOREALIS AS ; GUSTAFSSON BILL ; LAIHO ERKKI ; MAEKINEN TUOMO ; SAINIO MARKKU**Assignee(s):** BOREALIS A S**Inventor(s):** (std): GUSTAFSSON BILL ; GUSTAVSSON BILL ; LAIHO ERKKI ; MAEKINEN TUOMO ; MAKINEN TUOMO ; MOKINEN TUOMO ; SAINIO MARKKU**Inventor(s):** TUOMO MAEKINEN ; TUOMO MAKINEN ; MARKKU SAINIO ; BILL GUSTAFSSON ; ERKKI LAIHO**Designated states:** AL AM AT AU AZ BA BB BE BG BR BY CA CH CN CU CZ DE DK EE ES FI FR GB GE GH GR HU IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SL SZ TJ TM TR TT UA UG US UZ VN YU ZW**18) Family number: 20772500 (US6479150B)**

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Title: LAYER MATERIALS TREATED WITH SURFACTANT-MODIFIED HYDROPHOBIC ODOR CONTROL AGENTS

Abstract: A treated layer material has at least one hydrophilic, odor-absorbing surface which is wettable to aqueous liquids and capable of controlling a wide variety of malodors. The layer material is treated with a hydrophilic surfactant-modified odor control agent prepared by mixing or chemically reacting a hydrophobic odor control agent with a surfactant or surfactant-producing compound. The layer material thus treated can be used in a wide variety of personal care and medical absorbent products, as well as other applications.

Classifications:

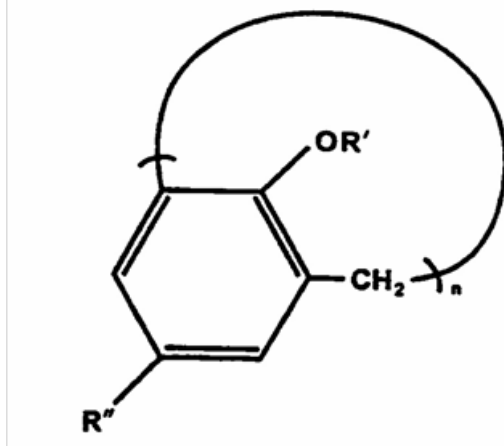
International (IPC 8-9): A61L15/46 A61L15/48 (Advanced/Invention);
A61L15/46 (Advanced/Non-invention);
A61L15/16 (Core/Invention);
A61L (Subclass/Invention)

International (IPC 1-7): A41B17/00 A61F13/15 A61F13/472
A61F13/49 A61F5/441 A61L A61L15/16 A61L15/46 A61L15/48
A61L9/01 B32B27/04 B32B9/04 D06M13/165

CPC: Y10T428/31504 Y10T442/2508 A61L15/46 A61L15/48
A61L2300/216 A61L2300/802

European: A61L15/46 A61L15/48 K61L300/216 K61L300/802

US: 428/411.1 442/121

**Family:**

Publication number	Publication date	Application number	Application date
AR022768 AA	20020904	AR2000P100843	20000225
AU200030062 A1	20000914	AU20000030062	20000224
AU200030062 A5	20000914	AU20000030062D	20000224
AU764373 B2	20030814	AU20000030062	20000224
BRPI0008455 A	20020129	BR2000PI08455	20000224
CN1341031 A	20020320	CN20008004212	20000224
EP1154805 A1	20011121	EP20000908784	20000224
JP2002537071 T2	20021105	JP20000600709T	20000224
KR20010104715 A	20011126	KR20017010922	20000224
US6479150 BA	20021112	US19990472934	19991228
WO0050099 A1	20000831	WO2000US04728	20000224
ZA200106208 A	20021126	ZA20010006208	20010727

Priority:

US19990121737P 19990226 US19990472934 19991228 WO2000US04728 20000224

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): KIMBERLY CLARK CO ; KIMBERLY CLARK WORLDWIDE INC

Assignee(s): KIMBERLY CLARK WORLDWIDE INC ; KIMBERLY CLARK CORP

Inventor(s): (std): LIU YUELONG ; QUINCY ROGER BRADSHAW III ; WOLTMAN GARRY ROLAND ; QUINCY III ROGER BRADSHAW ; BRADSHAW QUINCY III ROGER ; QUINEY ROGER BRADSHAW III ; GARRY ROLAND WOLTMAN ; YUELONG LIU ; ROGER BRADSHAW QUINCY III ; ROGER BRADSHAW QUINEY III

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

19) Family number: 43384536 (US2009155508A)

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Title: ENCAPSULATED ACTIVATED CARBON AND THE PREPARATION THEREOF

Abstract: The present invention relates to encapsulated activated carbon and a method of preparing the same to protect the structure of the activated carbon and preserve the odor absorbing capability of the activated carbon particles. Particularly, the present invention is directed to a method of forming a polymer substrate upon melt processing comprising providing a first master batch of activated carbon particles that are at least partially encapsulated with a non-water soluble amorphous polymer, providing a matrix polymer, mixing the first master batch with the matrix polymer to form a mixture, and extruding the mixture to form a polymer substrate.

Classifications:

International (IPC 8-9): B01D53/02 B29C47/00 B29C47/08 B29D22/00 B32B27/18 B32B5/16 C08J3/22

C08K3/04 (Advanced/Invention);

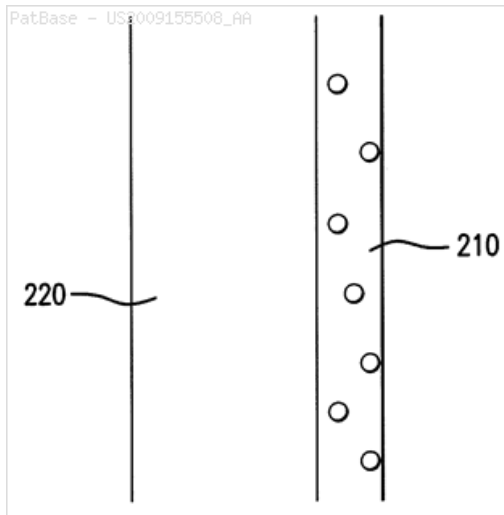
B29C47/00 B29C47/08 B29D22/00 B32B5/16 C08J3/20

C08K3/00 (Core/Invention)

CPC: C08J3/22 Y10T428/1334 Y10T428/1341 Y10T428/1345 Y10T428/1352 Y10T428/1376 Y10T428/1379 Y10T428/1383 Y10T428/2438 Y10T428/24471 Y10T428/24579 Y10T428/24893 Y10T428/25 Y10T428/2982 Y10T428/2991 Y10T428/2998 Y10T428/249956 Y10T428/249981

European: C08J3/22

US: 206/524.3 206/524.4 264/134 264/176.1 264/177.2 264/210.6 264/211 264/41 383/105 428/144 428/155 428/168 428/206 428/307.3 428/316.6 428/323 428/35.2 428/35.4 428/35.5 428/35.7 428/36.5 428/36.6 428/36.7 428/402 428/403 428/407 524/425 524/495 524/496 96/153 96/153P



Family:

Publication number	Publication date	Application number	Application date
US2009155508 AA	20090618	US20070957102	20071214
US2012145008 AA	20120614	US20120396248	20120214
US8927078 BB	20150106	US20120396248	20120214
WO09079332 A1	20090625	WO2008US86402	20081211

Priority:

US20070957102 20071214 US20120396248 20120214

Probable Assignee: REYNOLDS CONSUMER PRODUCTS INC**Assignee(s):** (std): CHAU CHIEH CHUN ; PACTIV CORP ; PATCHEN WILLIAM F ; REYNOLDS CONSUMER PROD**Assignee(s):** REYNOLDS CONSUMER PRODUCTS INC ; PACTIV LLC ; BANK OF NEW YORK MELLON ; BANK OF NEW YORK MELLON COLLATERAL AGENT AS**Inventor(s):** (std): CHAU CHIEH CHUN ; PATCHEN WILLIAM F**Agent(s):** BAKER BOTTS LLP; MERLING JEREMY ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

20) Family number: 34556591 (US2009105676A)

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Title: ABSORBENT PRODUCT

Abstract: Absorbent product, such as a diaper, a sanitary napkin or an incontinence product, whereby the product has odour control agent(s), and whereby the product has a wet zone, which is intended to store liquid during use, which zone is defined by the absorbent structure, a dry zone, which is intended to be substantially dry during use, which zone is defined by the outer edges, belt, elastics, backing sheet, wings and optionally outer part of the standing gathers, and an interfacing zone adjoining the wet zone, which is defined by the part(s) of the top sheet receiving liquid, optionally the inner part of the standing gathers, optionally an acquisition layer, and other parts adjoining the wet zone thereby occasionally being wet, wherein at least one substantially moisture-insensitive odour control agent is present in the wet zone and at least one odour control agent is present in the dry zone.

Classifications:**International (ipc 8-9):** A61F13/15 A61F13/53 A61F13/84

A61L15/46 (Advanced/Invention);

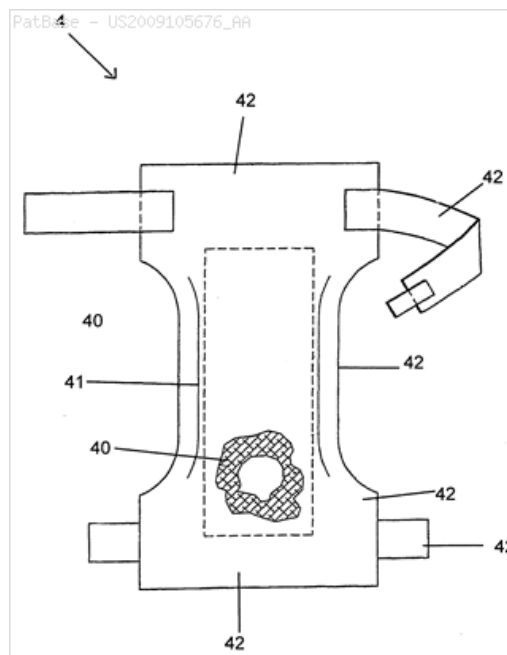
A61F13/15 A61L15/16 (Core/Invention)

International (ipc 1-7): A61L15/46**CPC:** A61F13/8405 A61L15/46 A61L2300/21 A61L2300/232

A61L2300/802

European: A61F13/84B A61L15/46 K61L300/210 K61L300/232

K61L300/802

US: 604/359 604/359P 604/360 604/360S**Family:**

Publication number	Publication date	Application number	Application date
AT517640 E	20110815	AT20050813407T	20051209
AU2005338954 AA	20070614	AU20050338954	20051209
BRPI0520737 A2	20090526	BR2005PI20737	20051209
BRPI0520737 B1	20160510	BR2005PI20737	20051209
CN101325981 A	20081217	CN200580052264	20051209
DE602005029261 D1	20110915	DE200560029261T	20051209
EP1960005 A1	20080827	EP20050813407	20051209
EP1960005 B1	20110727	EP20050813407	20051209
EP1960005 B2	20141105	EP20050813407	20051209
IN04638DN2008 A	20080815	IN2008DN04638	20080529
RU2008127856 A	20100120	RU20080127856	20051209
RU2389512 C2	20100520	RU20080127856	20051209
US2009105676 AA	20090423	US20050084884	20051209
WO07067111 A1	20070614	WO2005SE01883	20051209
WO07067111 C1	20080502	WO2005SE01883	20051209

Priority:

EP20050813407 20051209

RU20080127856 20051209

WO2005SE01883 20051209

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): FORSGREN BRUSK ULLA ; SCA HYGIENE PROCUKTS AB ; SCA HYGIENE PRODUCTS AB ; SCA HYGIENE PROD AB ; STRIDFELDT CHATRINE ; WALLSTROEM LEIF

Assignee(s): SKA KHAJDZHIN PRODAKTS AB

Inventor(s): (std): FORSGREN BRUSK ULLA ; STRIDFEHLDT KATRIN ; STRIDFELDT CHATRINE ; VALL STREM LEJF ; WALLSTROEM LEIF ; WALLSTROM LEIF ; ULLA FORSGREN BRUSK ; CHATRINE STRIDFELDT ; BRUSK ULLA FORSGREN ; LEIF WALLSTROEM ; BRUSK FORSGREN ULLA

Inventor(s): LEIF WALLSTROM ; VALL'STREM LEJF

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; LINDE JOERGEN ET AL; LINDE JOERGEN; ZACCO SWEDEN AB; BUCHANAN INGERSOLL AND ROONEY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

21) Family number: 34556592 (US2008300557A) © PatBase

Title: ABSORBENT PRODUCT

Abstract: Absorbent product, such as a diaper, a sanitary napkin or an incontinence product, having a longitudinal and a lateral direction, including a back sheet, being distal from the body of the wearer in use of the product, and a top sheet, being proximal to the body of the wearer in use of the product, the product having a front part, a rear part and a crotch part lying between the front and rear parts, the product further including an absorbent structure, between the top and back sheet, extending longitudinally from the front part to the rear part, and whereby the product includes at least one starch-based odour control agent having a specific area of at least 5 m2/g, preferably at least 10 m2/g, more preferably at least 50 m2/g, even more preferably at least 100 m2/g, and most preferably at least 200 m2/g. Hereby, an enhanced capacity to absorb malodorous compounds of large size intervals in wet and dry systems is achieved.

Classifications:
International (IPC 8-9): A61F13/15 A61F13/20 A61F13/472 A61F13/49 A61F13/84 A61L15/28 A61L15/46 (Advanced/Invention); A61F13/15 A61F13/51 A61L15/28 A61L15/46 (Advanced/Non-invention); A61F13/15 A61L15/16 (Core/Invention)
International (IPC 1-7): A61F A61F 13/15 A61F13/15 A61L15/46
CPC: A61F2013/8408 A61F2013/5109 A61F13/8405 A61L2300/10 A61L2300/108 A61L2300/802 A61L15/46 A61L15/28 A61L2300/232
European: A61F13/84B A61L15/28 A61L15/46 K61L300/10 K61L300/108 K61L300/232 K61L300/802
US: 604/359 604/359P 604/367 604/367S 604/385.23 604/385.230S

Family:

Publication number	Publication date	Application number	Application date
AU2005338955 AA	20070614	AU20050338955	20051209
AU2005338955 BB	20110210	AU20050338955	20051209
BRPI0520734 A2	20090526	BR2005PI20734	20051209
CA2624278 AA	20080331	CA20052624278	20051209
CN101304770 A	20081112	CN200580052055	20051209
CN101304770 B	20120620	CN200580052055	20051209
DE602005047114 D1	20150910	DE200560047114T	20051209
EP1957123 A1	20080820	EP20050815503	20051209
EP1957123 A4	20110921	EP20050815503	20051209
EP1957123 B1	20150729	EP20050815503	20051209
IN04252DN2008 A	20080801	IN2008DN04252	20080519
JP2009518110 T2	20090507	JP20080544289T	20051209
JP4922309 B2	20120425	JP20080544289T	20051209
KR101377553 B1	20140325	KR20087011089	20051209
KR20080081147 A	20080908	KR20087011089	20051209
MY149090 A	20130715	MY20060004476	20061109
RU2378020 C1	20100110	RU20080122998	20051209
TH91793 A	20081010	TH20061006111	20061207
US2008300557 AA	20081204	US20050096682	20051209
US8759604 BB	20140624	US20050096682	20051209
WO07067112 A1	20070614	WO2005SE01884	20051209

Priority:
EP20050815503 20051209 RU20080122998 20051209 WO2005SE01884 20051209
KR20087011089 20080508

Probable Assignee: SCA HYGIENE PRODUCTS AB

Assignee(s): (std): BESEMER ARIE CORNELIS ; BESEMER ARIES CORNELIS ; BRUSK ULLA FORSGREN ; FORSGREN BRUSK ULLA ; SCA HYGIENE PROD AB ; STRIDFELDT CHATRINE

Assignee(s): SKA KHAJDZHIN PRODAKTS AB ; SCA HYGIENE PRODUCTS AB

Inventor(s): (std): BASSEMIE A C ; BESEMER ARIE CORNELIS ; BESEMER ARIES CORNELIS ; FORSGREN BRUSK ULLA ; FOSGELUNBRUCEK U ; STREDFELDT C ; STRIDFELDT CHATRINE ; STRIDFEHLDT KATRIN ; BRUSK ULLA FORSGREN ; BESEMER ARIS KORNELIS ; CHATRINE STRIDFELDT ; BESEMER CORNELIS ARIES

Inventor(s): ACBASSEMIE ; A C BASSEMIE ; ARIE CORNELIS BESEMER ; ARIES CORNELIUS BESEMER ; ARIES CORNELIS BESEMER ; UFOSGELUNBRUCEK ; CSTREDFELDT ; CORNELIS ARIES BESEMER ; U FOSGELUNBRUCEK ; ULLA FORSGREN BRUSH ; ULLA FORSGREN BRUSK ; C STREDFELDT

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; FETHERSTONHAUGH AND CO; LINDE JOERGEN; ZACCO SWEDEN AB; BUCHANAN INGERSOLL AND ROONEY PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: Laundry additive particle having multiple surface coatings

Abstract: PCT No. PCT/US97/04323 Sec. 371 Date Sep. 18, 1998 Sec. 102(e) Date Sep. 18, 1998 PCT Filed Mar. 15, 1997 PCT Pub. No. WO98/12291 PCT Pub. Date Mar. 26, 1998A laundry additive particle having multiple coatings and compositions employing the particle are provided. The laundry additive particle comprises a porous carrier core material; a first encapsulating material coated on the core material to form an intermediate layer, the first encapsulating material comprising a glassy material derived from one or more at least partially water-soluble hydroxylic compounds having an anhydrous, nonplasticized, glass transition temperature, T_g, of at least about 0 DEG C.; and a second encapsulating material coated on the intermediate layer to form an outer layer, the second encapsulating material comprising a carbohydrate material having an anhydrous, nonplasticized, glass transition temperature, T_g, of at least about 130 DEG 0 C.; and the laundry additive particle has a hygroscopicity value of less than about 80 percent. Preferably, a laundry or cleaning agent such as a perfume is supported on or contained in the porous carrier.

Classifications:

International (IPC 8-9): C11D17/00 C11D17/06 C11D3/12

C11D3/22 C11D3/50 (Advanced/Invention)

International (IPC 1-7): C11D17/00 C11D17/06 C11D3/00

C11D3/08 C11D3/12 C11D3/22 C11D3/50 C11D7/06

CPC: C11D3/128 C11D3/22 C11D3/505 C11D17/0034 C11D17/0039

European: C11D17/00C C11D17/00D C11D3/12G2F C11D3/22 C11D3/50B2

US: 510/101 510/276 510/315 510/349 510/377 510/438 510/441 510/466 510/473 510/474 510/485 510/507 510/511

510/532

ベースの粒子	JP3308546_B2	A	B	C
アルミノケイ酸塩		18.0	22.0	24.0
硫酸ナトリウム		10.0	19.0	6.0
ポリアクリル酸ナトリウムポリマー		3.0	2.0	4.0

Family:

Publication number	Publication date	Application number	Application date
AR006275 AA	19990811	AR1997P101077	19970318
AT228557 E	20021215	AT19970909049T	19970315
BRP19711801 A	19990824	BR1997P111801	19970315
CA2250324 AA	19980915	CA19972250324	19970315
CA2250324 C	20010911	CA19972250324	19970315
CN1195836 C	20050406	CN19971092874	19970315
CN1213399 A	19990407	CN19971092874	19970315
DE69717480 D1	20030109	DE19976017480	19970315
DE69717480 T2	20030911	DE19976017480T	19970315
EP0931130 A2	19990728	EP19970909049	19970315
EP0931130 B1	20021127	EP19970909049	19970315
ES2184997 T3	20030416	ES19970909049T	19970315
JP2000500822 T2	20000125	JP19980514634T	19970315
JP3308546 B2	20020729	JP19980514634	19970315
US6025319 A	20000215	US19980142889	19980918
WO9812291 A2	19980326	WO1997US04323	19970315
WO9812291 A3	19980611	WO1997US04323	19970315

Priority:

US19960026474P 19960918

WO1997US04323 19970315

US19980142889 19980918

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): LEBLANC MICHAEL JUDE ; PROCTER AND GAMBLE ; SURUTZIDIS ATHANASIOS

Assignee(s): THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE COMPANY

Inventor(s): (std): LEBLANC JUDE ; LEBLANC MICHAEL J ; LEBLANC M J ; SURUTZIDIS A ; SURUTZIDIS ATHANASIOS ; LEBLANC MICHAEL JUDE

Inventor(s): A SURUTZIDIS ; M J LEBLANC ; MICHAEL JUDE LEBLANC ; ATHANASIOS SURUTZIDIS

Agent(s): KIRBY EADES GALE BAKER

Designated states: AT BE BR CA CH CN CZ DE DK ES FI FR GB GR HU IE IT JP LI LU MC MX NL PT SE US

Title: HYDROPHILIC POLYMERS FOR INCORPORATING DEODORANTS IN ABSORBENT STRUCTURES

Abstract: There is disclosed the process of incorporating a deodorant powder (of various mechanisms of action) into a hydrophilic, swellable, water-insoluble absorbent crosslinked polymer, which swellable polymer is coated on a thin, flexible, substrate e.g. a non-woven web, a paper tissue, or a water-insensitive film, and the resultant flexible structure which contain the deodorant powders, held in a dust-free stable manner, and their use as one or more components of body fluid absorbent structures such as sanitary napkins.

Classifications:

International (IPC 8-9): A61F13/00 A61F13/15 A61F13/20 A61L15/00 A61L15/16 A61L15/46 A61L9/00 A61L9/16 B01J20/30

B29B15/10 B29D7/01 (Advanced/Invention);

A61L9/00 A61L9/16 B01J20/30 (Advanced/Non-invention);

A61F13/00 A61F13/15 A61L15/00 A61L15/16 A61L9/00 A61L9/16 B01J20/30 B29B15/10 B29D7/00 (Core/Invention)

International (IPC 1-7): A61F13/00 A61F13/16 A61F13/18 A61F13/20 A61F13/46 A61K47/00 A61K47/34 A61K7/32 A61K7/46

A61L15/00 A61L15/16 A61L15/24 A61L15/46 A61L9/00 A61L9/16 B01J20/30 B29B15/10 B29D7/01 B32B27/10 B32B5/16

C08J3/20 C08J3/24 D06M15/00

CPC: Y10S428/905 A61L2300/102 A61L2300/108 A61F13/8405 A61F13/15577 A61F2013/5109 A61F2013/51409

A61F2013/530518 A61F2013/530642 A61F2013/8408 A61F2013/8447 A61F2013/845 A61L15/46 A61L2300/00 Y10T428/2982

Y10T428/2991 Y10T428/2998

European: A61F13/15M A61F13/84B A61L15/46 K61F13/514A4 K61F13/51R K61F13/53Q2A K61F13/53Q4D1 K61F13/84B1

K61F13/84B4 K61F13/84B4A K61L300/00 K61L300/102 K61L300/108

US: 424/489 428/283 428/402 428/403 428/407 428/905

Family:

Publication number	Publication date	Application number	Application date
AT84225 E	19930115	AT19880114029T	19880826
AU198821430 A1	19890302	AU19880021430	19880819
AU627429 B2	19920827	AU19880021430	19880819
BRPI8804401 A	19890328	BR1988PI04401	19880828
CA1330936 A1	19940726	CA19880575833	19880826
CN1027678 C	19950222	CN19881006292	19880825
CN1031545 A	19890308	CN19881006292	19880825
DE3877281 D1	19930218	DE19883877281	19880826
DE3877281 T2	19930722	DE19883877281T	19880826
EP0304952 A2	19890301	EP19880114029	19880826
EP0304952 A3	19891018	EP19880114029	19880826
EP0304952 B1	19930107	EP19880114029	19880826
ES2053649 T3	19940801	ES19880114029T	19880826
GR1000338 B	19920625	GR19880100555	19880826
GR880100555 A	19890525	GR19880100555	19880826
IE61194 B	19941019	IE19880002613	19880826
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IN182863 A	19990731	IN1994CA00808	19941003
JP1083264 A2	19890329	JP19880210844	19880826
JP2868522 B2	19990310	JP19880210844	19880826
JP64083264 A2	19890329	JP19880210844	19880826
NZ225846 A	19900926	NZ19880225846	19880816
PH26761 A	19920928	PH19880037452	19880824
US4992326 A	19910212	US19870090491	19870828
US5230958 A	19930727	US19910638728	19910108
ZA8806375 A	19900425	ZA19880006375	19880826

Priority:

US19870090491 19870828	IN1988CA00699 19880822	CA19880575833 19880826
EP19880114029 19880826	EP19880114029 19880826	EP19880114029 19880826
US19910638728 19910108	IN1992CA00287 19920427	IN1994CA00808 19941003

Probable Assignee: MCNEIL PPC INC

Assignee(s): (std): JOHNSON AND JOHNSON ; MCNEIL PPC INC ; NCNEIL PPC INC ; PERSONAL PRODUCTS CO ; PERSONAL PRODUCTS COMPANY ; ZEILER AG

Assignee(s): DABI SHMUEL ; PAASONARU PURODAKUTSU CO ; PERSONAL PROD CO ; MCNEIL PPC INC MILLTOWN N J US

Inventor(s): (std): DABI SHMUEL ; SHMUEL DABI ; SHMUEL DABI ; SAMIYUERU DABI ; DABI SAHMUEL ; DABI SHMUEL

Inventor(s): SAMYUERU DABI ; DABI SHMUEL HIGHLAND PARK N J 08904 US ; DABI SHMUEL HIGHLAND PARK NJ 08904 US

Agent(s): GRIFFITH HACK; OGILVY RENAULT LLP SENCRL SRL

Designated states: AT BE CH DE ES FR GB IT LI NL

24) Family number: 43594629 (JP2009155734A)

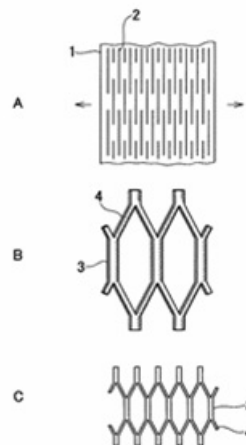
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Title: FUNCTIONAL WEB SLIT BODY

Abstract: PROBLEM TO BE SOLVED: To present a functional material in which characteristics such as flexibility, area extension, or an increase in density of a functional material, three-dimensionalization of a web, water permeability, or air permeability are further imparted to a functional web which is various agricultural materials, or life materials with a simple means. SOLUTION: A functional web slit body includes a plurality of slit meshes introduced into a web containing the functional material such as a seed, a fertilizer, and an insect proof agent as the agricultural materials, or the functional material such as an antibacterial agent, a deodorant, and a mildewproofing agent as the life materials. Furthermore, creasing processing has been applied to the functional web slit body.

Classifications:

International (IPC 8-9): A01G13/00 A61F13/49 A61F13/511
D04H1/40 D04H1/76 D06M15/01 (Advanced/Invention)

**Family:**

Publication number	Publication date	Application number	Application date
JP2009155734 A2	20090716	JP20070331500	20071225

Priority:

JP20070331500 20071225

Probable Assignee: POLYMER PROC RES INST
Assignee(s): (std): POLYMER PROC RES INST
Assignee(s): POLYMER PROCESSING RES INST
Inventor(s): (std): YAZAWA HIROSHI ; MURAKAMI SHUICHI

25) Family number: 33093650 (US2006142709A)

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Title: ACTIVATED CARBON SUBSTRATES

Abstract: A substrate that contains an odor control composition is provided. The odor control composition includes activated carbon for adsorbing one or more odorous compounds to reduce odor. The odor control composition also contains a water-soluble binder for increasing the durability of the activated carbon when applied to a substrate. In addition to improving durability, such a water-soluble binder may also provide good drapability and low residual odor in the resulting coated substrate.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/53 A61L15/16 A61L15/46 B32B5/30 (Advanced/Invention);

A61F13/15 A61L15/16 A61L15/46 (Advanced/Non-invention);

A61F13/15 A61L15/16 (Core/Invention)

CPC: Y10T428/24901 A61L15/18 A61L2300/606 A61L2300/622

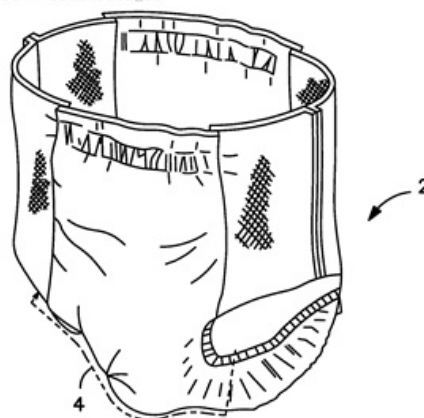
A61L15/46 A61L2300/102 A61L2300/108 A61L2300/442

European: A61L15/18 A61L15/46 K61L300/102 K61L300/108

K61L300/606 K61L300/622

US: 428/207 604/359 604/359P

PatBase - US8168852_B8

**Family:**

Publication number	Publication date	Application number	Application date
AU2005322560 AA	20060706	AU20050322560	20050930
AU2005322560 BB	20110707	AU20050322560	20050930
BRPI0518807 A2	20081209	BR2005PI18807	20050930
BRPI0518807 B1	20161220	BR2005PI18807	20050930
CN101090742 A	20071219	CN200580044799	20050930
CN101090742 B	20120926	CN200580044799	20050930

DE602005048492 D1	20160331	DE200560048492T	20050930
EP1827518 A1	20070905	EP20050808602	20050930
EP2813248 A1	20141217	EP20140183896	20050930
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KR20070088731 A	20070829	KR20077014280	20070622
KR20130062376 A	20130612	KR20137012867	20050930
MX2007007638 A1	20070806	MX20070007638	20050930
US2006142709 AA	20060629	US20040021547	20041223
US8168852 BB	20120501	US20040021547	20041223
WO06071318 A1	20060706	WO2005US35496	20050930

Priority:

US20040021547 20041223 EP20050808602 20050930 EP20140183896 20050930
WO2005US35496 20050930

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): KIMBERLY CLARK CO ; KIMBERLY CLARK CORP ; QUINCY III ROGER BRADSHAW

Assignee(s): KIMBERLY CLARK WORLDWIDE INC ; KIMBERLY CLARK WORLDWIDE INC NEENAH

Inventor(s): (std): BRADSHAW QUINCY III ROGER ; QUINCY III ROGER BRADSHAW ; QUINCY ROGER B III ; QUINCY ROGER BRADSHAW III

Inventor(s): ROGER BRADSHAW QUINCY III ; QUINCY III ROGER BRADSHAW CUMMING ; QUINCY ROGER BIII ; QUINCY ROGER

Agent(s): SPRUSON AND FERGUSON; FREEHILLS PATENT AND TRADE MARK ATTORNEYS; FREEHILLS PATENT ATTORNEYS; HERBERT SMITH FREEHILLS; FREEHILLS PATENT ATTORNEY S; DEHNS; BEACHAM ANNABEL ROSE; DORITY AND MANNING PA

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

26) Family number: 2764659 (EP0389015A2)

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Title: ABSORBENT STRUCTURES WITH ODOR CONTROL MATERIAL.

Abstract: Absorbent articles such as sanitary napkins, diapers, and the like, comprising a topsheet and an absorbent core, are provided with odor-controlling agents, especially molecular sieves, in the form of a comminuted sheet material. The sheet form simplifies the handling of the odor-controlling agents and the high-speed manufacture of the finished article. By comminuting the sheet, rather than using it in integral form, the sanitary and aesthetic advantages associated with modern topsheet materials are retained.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/20 A61F13/472

A61F13/49 A61F13/56 A61F5/44 A61L15/46 (Advanced/Invention);

A61F13/20 A61F13/56 A61F5/44 (Advanced/Non-invention);

A61F13/15 A61F13/20 A61F5/44 A61L15/16 (Core/Invention);

A61F13/56 (Core/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/18 A61F13/20 A61F13/46

A61F13/54 A61F5/44 A61L15/18 A61L15/46 B32B23/10 B32B23/14

B32B5/02 B32B5/16

CPC: A61F13/51104 A61F13/51113 A61F13/512 A61F13/8405

A61F13/58 A61F2013/15926 A61F2013/530007 A61F2013/530481

A61F2013/530569 A61F2013/5307 A61F2013/8414 A61F2013/842

A61F2013/8423 A61F2013/8426 A61L15/46 A61L2300/404

European: A61F13/84B A61L15/46 K61F13/15F2 K61F13/15M11G

K61F13/511D6 K61F13/513G5 K61F13/53L K61F13/53Q

K61F13/53Q3 K61F13/53Q6 K61F13/58 K61F13/84B1B

K61F13/84B1C K61F13/84B1D K61F13/84B1E K61L300/404

PatBase - CA2011672_AA

**SUBSTITUTE
REPLACEMENT**

SECTION is not Present

Cette Section est Absente

Family:

Publication number	Publication date	Application number	Application date
AU199051463 A1	19900920	AU19900051463	19900320
AU620224 B2	19920213	AU19900051463	19900320
BRP19001299 A	19910402	BR1990PI01299	19900320
CA2011672 AA	19900920	CA19902011672	19900307
CN1046092 A	19901017	CN19901002242	19900320
EP0389015 A2	19900926	EP19900200438	19900226
EP0389015 A3	19910828	EP19900200438	19900226
FI901356 A0	19900319	FI19900001356	19900319

JP3202055 A2	19910903	JP19900071765	19900320
KR19900013927 A	19901022	KR19900003633	19900319
MA21774 A1	19901001	MA19900022038	19900319
PT93465 A	19901107	PT19900093465	19900316

Priority:

US19890325618 19890320 CA19902011672 19900307

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): BENSON DOUGLAS H ; FURIO DIANE L ; JOHNSON THERESA L ; PROCTER AND GAMBLE

Assignee(s): PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTOR AND GAMBLE COMPANY ; PROCTER AND GAMBLE COMPANY THE ; PROCTOR AND GAMBLE CO

Inventor(s): (std): BENSON DOUGLAS H ; BENSON DOUGLAS HERRIN ; BENSON H DOUGLAS ; DAGURASU HERIN BENSON ; DAIAN RIN FURIO ; FURIO DIANE L ; FURIO DIANE LYNN ; JOHNSON L THERESA ; JOHNSON THERESA L ; JOHNSON THERESA LOUISE ; TERESA RUIZU JIYONSON

Inventor(s): THERESA LOUISE JOHNSON ; JOHNSON L THERESA ; DIANE LYNN FURIO ; DOUGLAS HERRIN BENSON ; BENSON HDOUGLAS

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

27) Family number: 43479665 (US5306487A)

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Title: HIGH CAPACITY ODOR CONTROLLING COMPOSITIONS

Abstract: Compositions comprise absorbent gelling materials combined with high levels of odor-controlling agents by means of binders. The preferred particle form of the compositions is easy to handle, and is used in the manufacture of catamenials, diapers, bandages, and the like. The absorbent gelling material enhances the odor-controlling properties of the compositions by helping to control ammonia odors.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/472 A61F13/49

A61L15/18 A61L15/46 A61L9/01 (Advanced/Invention);

A61F13/15 (Advanced/Non-invention);

A61F13/15 A61L15/16 A61L9/01 (Core/Invention)

International (IPC 1-7): A61F13/15 A61F13/40 A61F13/46

A61F13/472 A61L15/16 A61L15/18 A61L15/24 A61L15/28 A61L15/46

A61L9/01 B01J20/02 B01J20/22

CPC: A61L15/18 A61L9/01 A61L15/46 A61L2300/102 A61L2300/108

European: A61L15/46 A61L9/01 K61L300/102 K61L300/108

US: 424/76.6 424/78.1 604/359



Family:

Publication number	Publication date	Application number	Application date
AT142509 E	19960915	AT19910904313T	19910131
AU199172499 A1	19910903	AU19910072499	19910131
AU657676 B2	19950323	AU19910072499	19910131
BRPI9106037 A	19930302	BR1991PI06037	19910131
CA2071962 AA	19920617	CA19912071962	19910131
CA2071962 C	19940920	CA19912071962	19910131
CN1054901 A	19911002	CN19911001503	19910212
CN1057471 C	20001018	CN19911001503	19910212
CN1112941 C	20030702	CN19991020582	19990928
CN1249953 A	20000412	CN19991020582	19990928
DE69122086 D1	19961017	DE19916022086	19910131
DE69122086 T2	19970206	DE19916022086T	19910131
DK0515477 T3	19970303	DK19910904313T	19910131
EP0515477 A1	19921202	EP19910904313	19910131
EP0515477 A4	19930127	EP19910904313	19910131
EP0515477 B1	19960911	EP19910904313	19910131
ES2091917 T3	19961116	ES19910904313T	19910131
FI104049 B	19991115	FI19920003593	19920811
FI923593 A	19920811	FI19920003593	19920811
FI923593 A0	19920811	FI19920003593	19920811

GR3020986 T3	19961231	GR19960402303T	19960912
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IE75694 B	19970910	IE19910000444	19910211
IE910444 A1	19910814	IE19910000444	19910211
JP3046064 B2	20000529	JP19910504496T	19910131
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KR0157598 B1	19990201	KR19920071926	19920811
KR100157598 B1	19990201	KR19920701926	19910131
KR19927003127 A	19921217	KR19927001926	19910131
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US5306487 A	19940426	US19920908588	19920629
WO9112029 A1	19910822	WO1991US00690	19910131

Priority:

US19900478801 19900212 WO1991US00690 19910131 US19920908588 19920629

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): KARAPASHA NANCY ; PROCTER AND GAMBLE ; JOHNSON THERESA L

Assignee(s): JOHNSON THERESA LOUISE ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE CO THE ; THE PROCTER AND GAMBLE COMPANY ; PROCTER AND GAMBLE COMPANY THE ; THE PROCTER AND GAMBLE CO ; THE PROCTER AND GAMBLE COMPANY ; THE PROCTER AND GAMBLE CO CINCINNATI OHIO US ; PROCTER AND GAMBLE CO

Inventor(s): (std): CAVEPARSHA NANCY ; JOHNSON T L ; JOHNSON THERESA ; JOHNSON THERESA L ; JOHNSON THERESA LOUISE ; KARAPASHA N ; KARAPASHA NANCY ; N KARAPASHA ; T L JOHNSON

Inventor(s): THERESA L JOHNSON ; THERESA LOUISE JOHNSON ; NANCY CAVEPARSHA ; NANCY KARAPASHA ; KARAPASHA NANCY FAIRFIELD OH 45014 US ; JOHNSON THERESA LOUISE CINCINNATI OH 45246 US

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

Designated states: AT AU BE BR CA CH DE DK ES FI FR GB GR IT JP KR LI LU NL SE

28) Family number: 12792729 (WO9841607A1)

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Title: DELIVERY SYSTEMS

Abstract: Glassy particles containing agents useful for laundry and cleaning products (preferably perfumes, bleaching agents, soil release polymers), and laundry and cleaning products containing these glassy particles. The particles comprise a glass derived from one or more at least partially water-soluble hydroxylic compounds, such as hydrogenated starch hydrolysates, sucrose, glucose, and starch hydrolysates. The glassy particle also has a hygroscopicity value of less than about 80 percent.

Classifications:

International (IPC 8-9): C11D17/00 C11D17/06 C11D3/12 C11D3/22 C11D3/38 C11D3/382 C11D3/50 (Advanced/Invention); C11D17/00 C11D17/06 C11D3/12 C11D3/22 C11D3/38 C11D3/50 (Core/Invention)

International (IPC 1-7): C11D17/00 C11D17/06 C11D3/12 C11D3/22 C11D3/382 C11D3/50

CPC: C11D3/222 C11D3/50 C11D17/0034

European: C11D17/00C C11D3/22E C11D3/50

Family:

Publication number	Publication date	Application number	Application date
AT271120 E	20040715	AT19970915997T	19970315
BRPI9714579 A	20000308	BR1997PI14579	19970315
CA2283876 AA	19990910	CA19972283876	19970315
CA2283876 C	20040413	CA19972283876	19970315
DE69729891 D1	20040819	DE19976029891	19970315
DE69729891 T2	20050721	DE19976029891T	19970315
EP0986632 A1	20000322	EP19970915997	19970315
EP0986632 B1	20040714	EP19970915997	19970315
ES2225960 T3	20050316	ES19970915997T	19970315
JP2001516372 T2	20010925	JP19980514055	19970315
JP4303789 B2	20090729	JP19980514055	19970315
WO9841607 A1	19980924	WO1997US04124	19970315

Priority:

BR1997PI14579 19970315 WO1997US04124 19970315

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): PROCTER AND GAMBLE

Assignee(s): THE PROCTER AND GAMBLE COMPANY CINCINNATI ; SURUTZIDIS ATHANASIOS ; RIZZI GEORGE PETER ; MANOHAR SANJEEV KRISHNADAS ; SHOWELL MICHAEL STANFORD ; PROCTER AND GAMBLE CO ; KVIETOK FRANK ANDREJ ; WATSON RANDALL ALAN ; BURCKETT ST LAURENT JAMES C ; BURNS MICHAEL EUGENE ; COOK THOMAS EDWARD ; GOSSELINK EUGENE PAUL ; THE PROCTER AND GAMBLE COMPANY

Inventor(s): (std): BURCKETT ST LAURENT C ; BURCKETT ST LAURENT JAMES C ; BURNS EUGENE ; BURNS MICHAEL EUGENE ; COOK EDWARD ; COOK THOMAS EDWARD ; KVIETOK ANDREJ ; KVIETOK FRANK ANDREJ ; LAURENT JAMES C BURCKETT ST ; MANOHAR KRISHNADAS ; MANOHAR SANJEEV KRISHNADAS ; GOSSELINK EUGENE PAUL ; GOSSELINK PAUL ; RIZZI GEORGE PETER ; RIZZI PETER ; SHOWELL MICHAEL STANFORD ; SHOWELL STANFORD ; SURUTZIDIS ATHANASIOS ; WATSON ALAN ; WATSON RANDALL ALAN

Inventor(s): SANJEEV KRISHNADAS MANOHAR ; JAMES C BURCKETT ST LAURENT ; ATHANASIOS SURUTZIDIS ; MICHAEL EUGENE BURNS ; MICHAEL STANFORD SHOWELL ; RANDALL ALAN WATSON ; EUGENE PAUL GOSSELINK ; FRANK ANDREJ KVIETOK ; GEORGE PETER RIZZI

Agent(s): KIRBY EADES GALE BAKER

Designated states: AT BE BR CA CH CN CZ DE DK ES FI FR GB GR HU IE IT JP LI LU MC MX NL PT SE

29) Family number: 34088756 (US2007009545A)

© PatBase

Title: MYCOPLASMA SUBUNIT VACCINE

Abstract: The present invention relates i.a. to vaccines for combating Mycoplasma infection, to mycoplasmal L-alpha-glycerophosphate oxidase for use in such vaccines, to the use of mycoplasmal L-alpha-glycerophosphate oxidase for the manufacturing of such vaccines, to methods for the preparation of such vaccines and to diagnostic tests for the discrimination of animals vaccinated with said vaccines and animals vaccinated with whole cell vaccines or animals suffering from field infection.

Classifications:

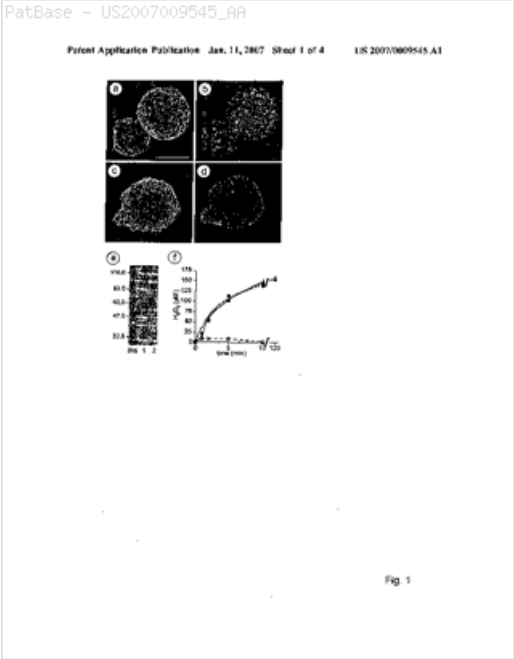
International (ipc 8-9): A61K31/711 A61K35/74 A61K38/44 A61K39/00 A61K39/002 A61K39/02 A61K39/04 A61K39/09 A61K39/106 A61K39/108 A61K39/112 A61K39/116 A61K39/12 A61K39/145 A61K39/15 A61K39/165 A61K39/17 A61K39/205 A61K39/23 A61K39/245 A61K39/395 A61K48/00 A61P31/04 A61P31/12 C07K14/00 C12N15/09 C12N9/04 C12P1/00 C12Q1/26 (Advanced/Invention); A61K31/711 A61K35/66 A61K38/43 A61K39/00 A61K39/002 A61K39/02 A61K39/04 A61K39/09 A61K39/106 A61K39/108 A61K39/112 A61K39/12 A61K39/145 A61K39/15 A61K39/155 A61K39/205 A61K39/23 A61K39/245 A61K39/395 A61K48/00 A61P31/00 C12N15/09 C12N9/04 C12Q1/26 (Core/Invention); A61K A61P (Subclass/Invention)

International (ipc 1-7): A61P31/04

CPC: A61K39/04

European: A61K39/04 A61K39/116 A61K39/295

US: 424/130.1 424/130.100S 424/168.1 424/168.100P 424/184.1 424/184.100S 424/185.1 424/190.1 424/203.1 424/248.1 424/264.1 424/264.100S 424/93.2 424/93.200S 424/93.4 424/93.400S 424/94.4 424/94.400S 435/41 514/44 514/44.00RS 514/44R 530/350



Family:

Publication number	Publication date	Application number	Application date
AU2006268748 AA	20070118	AU20060268748	20060706
BRPI0612739 A2	20121002	BR2006PI12739	20060706
CA2614261 AA	20080104	CA20062614261	20060706
CN101217974 A	20080709	CN200680024567	20060706
EP1904096 A2	20080402	EP20060777602	20060706
IN00085CN2008 A	20080919	IN2008CN00085	20080107
JP2009500007 T2	20090108	JP20080518870T	20060706
NZ564286 A	20101126	NZ20060564286	20060706
US2007009545 AA	20070111	US20050176700	20050707
US2008193463 AA	20080814	US20060994677	20060706
US7833536 BB	20101116	US20060994677	20060706
WO07006712 A2	20070118	WO2006EP63948	20060706
WO07006712 A3	20070405	WO2006EP63948	20060706
ZA200710724 A	20081029	ZA20070010724	20071210

Priority:

US20050176700 20050707 US20060994677 20060706 WO2006EP63948 20060706

Probable Assignee: OF BERN UNIV

Assignee(s): (std): FREY JOACHIM ; PILO PAOLA ; UNIV BERN ; VILEI EDIE M ; VILEI EDY M

Assignee(s): UNIVERSITY OF BERN ; OF BERN UNIV ; BERN UNIV ; BERN UNIV OF

Inventor(s): (std): FREY JOACHIM ; PILO PAOLA ; PAOLA PILO ; JOACHIM FREY ; VILEI EDIE M ; VILEI EDY M

Inventor(s): VILEI EDY ; EDIE M VILEI ; EDY M VILEI ; PREY JOACHIM ; VILEI EDIE

Agent(s): SPRUSON AND FERGUSON; FETHERSTONHAUGH AND CO; JANSSEN PAULUS J P ET AL; OSAKI KATSUMASA; TSUBOKURA MICHIAKI; KANAYAMA MASATAKA; KAWAGUCHI YOSHIO; ONO MAKOTO; INTERVET INC PATENT DEPARTMENT; INTERVET/SCHERING-PLOUGH ANIMAL HEALTH, PATENT DEPARTMENT; INTERVET SCHERING PLOUGH ANIMAL HEALTH PATENT DEPARTMENT; WILLIAM M

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

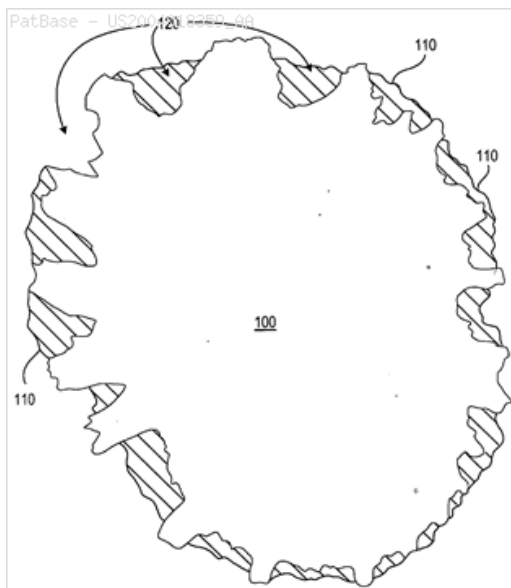
30) Family number: 30183767 (US2004018359A)

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Abstract: The invention relates to preserving the properties of active particles through use of an encapsulant which may be removable. The encapsulant may protect the active particles against premature deactivation. If desired, the encapsulant may be removed to rejuvenate the active particles. Various processes can be implemented to introduce encapsulated particles to embedding substances which may be used in various products.

Classifications:

International (IPC 8-9): A61L9/01 A61L9/16 B01D B01D53/02 B01D53/04 B01J B01J2/00 B01J20/00 B01J20/04 B01J20/06 B01J20/08 B01J20/10 B01J20/18 B01J20/20 B01J20/22 B01J20/28 B01J20/30 B01J20/32 B01J20/34 B05D7/00 B32B5/16 C01B31/08 C04B40/06 C08J3/20 C08K3/00 C08K3/20 C08K3/22 C08K3/26 C08K3/34 C08K5/101 C08K9/10 C09B67/06 C09B67/10 C09D133/00 C09D175/04 C09D5/00 C09D7/14 C09D7/80 C09F9/00 C09K3/00 D01F1/10 D01F6/92 G01K11/00 G01K3/04 G01N11/00 (Advanced/Invention); B01D53/04 B01J20/20 B01J20/32 C01B31/08 (Advanced/Non-invention); B01D53/04 C08J3/20 C08K3/00 C08K9/00 C09D5/00 C09F9/00 C09K3/00 G01K11/00 G01K3/00 G01N11/00 (Core/Invention)
International (IPC 1-7): B01D53/02 B01D53/04 B01J20/20 B01J20/30 B01J20/32 B01J20/34 B32B5/16 C01B31/08 D01F1/10
CPC: Y10T428/2984 Y10T428/2985 Y10T428/2991 Y10T428/2993 Y10T428/2995 Y10T428/2996 Y10T428/2998 B01J20/28054 B01D53/02 B01J20/28016 B01J20/3293 C04B40/0633 D01F1/10 C09D5/00 C08K9/10 D06M23/12 B01D53/04 B01J20/20 B01J20/32 C01B32/30 C08K3/013 C09D7/61
European: B01D53/02 B01J20/28D4 B01J20/28F B01J20/32H4 C04B40/06C C08K3/00P5 C08K9/10 C09D5/00 D01F1/10 D06M23/12
US: 106/310 252/194 252/194S 252/8.61 252/8.610P 374/102 374/102S 374/E3.004 374/E30.04S 427/212 427/212S 428/402.2 428/402.200S 428/402.21 428/402.210P 428/403 428/403P 428/404 428/405 428/406 428/407 428/407S 523/210 523/210S 524/290 524/290S 524/424 524/424S 524/430 524/430S 524/432 524/432S 524/437 524/437S 524/450 524/450S 524/556 524/556S 524/590 524/590S 524/606 524/606S



Family:

Publication number	Publication date	Application number	Application date
AT477042 E	20100815	AT20030760375T	20030612
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CA2489139 C	20120110	CA20032489139	20030612
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CN101157015 A	20080409	CN200710142411	20030612
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HK1119113 A3	20090227	HK20080111194	20081009
IN00410KN2009 A	20090508	IN2009KN00410	20090129
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IN242593 B	20100903	IN2004KN01877	20041207
IN290972 B	20171229	IN2009KN00410	20090129
JP2005532152 T2	20051027	JP20040512887T	20030612
JP2006314996 A2	20061124	JP20060157876	20060606
JP2011072994 A2	20110414	JP20100249222	20101105
JP2012139688 A2	20120726	JP20120082016	20120330
JP5735257 B2	20150617	JP20100249222	20101105
KR101046303 B1	20110705	KR20047020118	20030612
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KR20050023299 A	20050309	KR20047020118	20030612
KR20110000688 A	20110104	KR20107024666	20030612
MXPA04012543 A1	20050419	MX2004PA12543	20030612
TW200909495 A	20090301	TW20070143748	20071119
TW201416399 A	20140501	TW20130144011	20071119
TWI449736 B	20140821	TW20070143748	20071119
TWI589651 B	20170701	TW20130144011	20071119
US2004018359 AA	20040129	US20030462105	20030612
US2006008646 AA	20060112	US20050226524	20050913
US2008121141 AA	20080529	US20070985733	20071116
US2011180744 AA	20110728	US20110048554	20110315
US7247374 BB	20070724	US20030462105	20030612
WO03105996 A1	20031224	WO2003US18854	20030612
WO08063557 A2	20080529	WO2007US24063	20071116
WO08063557 A3	20080925	WO2007US24063	20071116

Priority:

US20020388678P	20020612	EP20030760375	20030612	EP20100172422	20030612
JP20040512887	20030612	US20030462105	20030612	JP20040512887T	20030612

WO2003US18854 20030612 US20050226524 20050913 US20060859628P 20061116
US20070967059P 20070830 US20070985733 20071116 US20110048554 20110315

Probable Assignee: COCONA INC

Assignee(s): (std): GREGORY HAGGQUIST ; HAGGQUIST GREGORY ; HAGGQUIST GREGORY W ; HAUGAARD PHILIP C ; HAUGAARD PHILIP CHRISTIAN ; TRAPTEK LLC ; COCONA INC ; PHILIP CHRISTIAN HAUGAARD

Assignee(s): COCONA INC BOULDER ; TRAPTEK L L C

Inventor(s): (std): GREGORY W HAGGQUIST ; PHILIP CHRISTIAN HAUGAARD ; HAUGAARD PHILIP C ; HAGGQUIST GREGORY W ; HAGGQUIST GREGORY ; GREGORY HAGGQUIST ; HAUGAARD PHILIP CHRISTIAN

Inventor(s): HAGGQUIST GREGORY W LONGMONT

Agent(s): SMART AND BIGGAR; VOSSIUS AND PARTNER PATENTANWAELTE RECHTSANWAELTE MBB; VOSSIUS AND PARTNER; HEUNEMANN DIETER; LLOYD WISE AND CO; CLT PATENT AND TRADEMARK HK LTD; AOKI ATSUSHI; KOGA TETSUJI; ISHIDA TAKASHI; FISH AND NEAVE IP GROUP, ROPES AND GRAY LLP; FISH AND NEAVE IP GROUP ROPES AND GRAY LLP; ROPES AND GRAY LLP; FISH AND NEAVE IP GROUP OF ROPES AND GRAY LLP; JACKSON ROBERT R; SHVARTS ALEXANDER ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

31) Family number: 20691782 (WO9701317A1)

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Title: ODOR CONTROL DEVICE

Abstract: This invention relates to an improved article for absorbing bodily fluid and controlling the emission of odors from the absorbed fluids, and in particular to an improved article which comprises an odor control material in combination with a perforated film topsheet.

Classifications:

International (ipc 8-9): A61F13/15 A61F13/20 A61F13/472 A61F13/49 A61F13/511 A61F5/44 (Advanced/Invention);

A61F13/15 A61F13/20 A61F5/44 (Advanced/Non-invention);

A61F13/15 A61F5/44 (Core/Invention)

International (ipc 1-7): A61F13/15 A61F13/20 A61F13/54 A61F5/44 A61H

CPC: A61F13/8405

European: A61F13/84B

Family:

Publication number	Publication date	Application number	Application date
AT224684 E	20021015	AT19960922601T	19960627
AU199663417 A1	19970130	AU19960063417	19960627
CA2225697 AA	19971223	CA19962225697	19960627
DE69623959 D1	20021031	DE19966023959	19960627
DE69623959 T2	20030123	DE19966023959T	19960627
EP0835089 A1	19980415	EP19960922601	19960627
EP0835089 A4	20000614	EP19960922601	19960627
EP0835089 B1	20020925	EP19960922601	19960627
IT1276450 B1	19971031	IT1995T000541	19950627
ITTO950541 A0	19950627	IT1995T000541	19950627
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KR100264042 B1	20000901	KR19970709803	19971227
KR19990028487 A	19990415	KR19970709803	19960627
MX9800107 A1	19981129	MX19980000107	19980107
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Priority:

IT1995T000541 19950627 WO1996US11003 19960627

Probable Assignee: PROCTER AND GAMBLE CO

Assignee(s): (std): CARLUCCI GIOVANNI ; CINTIO ACHILLE DI ; PROCTER AND GAMBLE ; THE PROCTER AND GAMBLE COMPANY

Assignee(s): THE PROCTER AND GAMBLE COMPANY CINCINNATI ; PROCTER AND GAMBLE CO ; PROCTER AND GAMBLE PESCARA TECHNICAL CENTER SPA

Inventor(s): (std): CARLUCCI GIOVANNI ; CINTIO ACHILLE DI ; CINTIO ACHILLO DI ; CINTIO DI ; DI CINTIO ACHILLE ; CINTIO ARCHILLE DI

Inventor(s): ARCHILLE DI CINTIO ; ACHILLE DI CINTIO ; GIOVANNI CARLUCCI

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; SIM AND MCBURNEY

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GR HU IE IL IS IT JP KE KG KP KR KZ LI LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

32) Family number: 47108818 (US2012118242A)

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Title: ABSORBENT MATERIAL

Abstract: An absorbent composition is manufactured and used in cat litter. The composition includes: a particulate inorganic mineral, one or more superabsorbent polymers (SAP) dispersed between the particles of the mineral, and a hydrophilic binder capable of binding the mineral and the SAP into discrete granules. The granular material produced has water absorbency characteristics comparable to that of more expensive bentonite-products. The mineral may be waste quarry fines that would otherwise have to be disposed of. Such fines are widely available, in contrast to bentonite that must be shipped from a restricted number of locations, which is environmentally damaging and associated with excessive product miles. The granules can be made by mixing the mineral and the super absorbent polymer to form a slurry, draining the water from the

slurry and optionally pressing the resulting filter cake, mixing the binder with the wet filter cake and granulating the resulting composition.

Classifications:

International (IPC 8-9): A01K A01K1/015

A01K29/00 (Advanced/Invention);

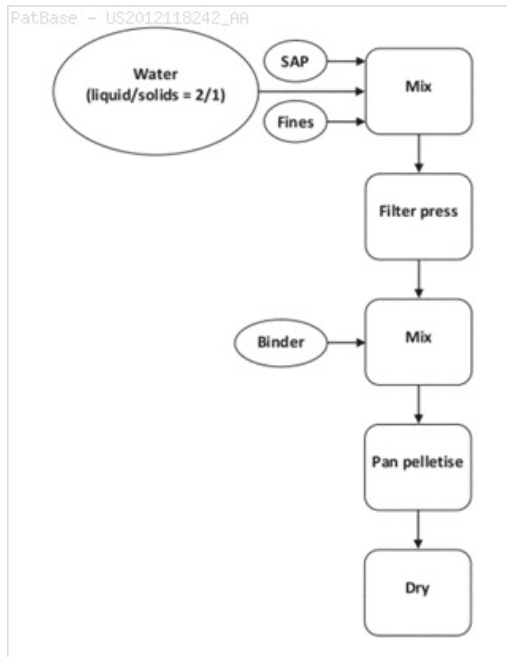
A01K1/015 (Core/Invention);

A01K (Subclass/Invention)

CPC: A01K1/0154 A01K1/0155

European: A01K1/015B2 A01K1/015B4

US: 119/173



Family:

Publication number	Publication date	Application number	Application date
AU2010238369 AA	20101021	AU20100238369	20100419
AU2010238369 BB	20151022	AU20100238369	20100419
CA2758859 AA	20101021	CA20102758859	20100419
EP2241178 A1	20101020	EP20090251125	20090417
EP2418935 A1	20120222	EP20100714945	20100419
US2012118242 AA	20120517	US20100264468	20100419
WO10119272 A1	20101021	WO2010GB00788	20100419
ZA201107861 A	20120725	ZA20110007861	20111027

Priority:

EP20090251125 20090417 EP20100714945 20100419 WO2010GB00788 20100419

Probable Assignee: BOB MARTIN UK LTD

Assignee(s): (std): BOB MARTIN UK LTD ; IMP INNOVATIONS LTD ; CHEESEMANN CHRISTOPHER ROBERT ; GREAVES ROSEMARY IRENE WHINCUP ; IMP COLLEGE INNOVATIONS LTD ; LUPO RICHARD ANTHONY ; TYRER MARK ; MADAN SAVI

Assignee(s): IMP INNOVATIONS BOB MARTIN UK LTD LTD ; IMPERIAL COLLEGE INNOVATIONS LIMITED ; IMPERIAL INNOVATIONS LIMITED ; BOB MARTIN (UK) LTD ; BOB MARTIN LTD

Inventor(s): (std): ANTHONY LUPO RICHARD ; CHEESEMANN CHRISTOPHER ROBERT ; GREAVES ROSEMARY IRENE WHINCUP ; LUPO RICHARD ANTHONY ; MADAN SAVI ; MARK TYRER ; ROBERT CHEESEMANN CHRISTOPHER ; SAVI MADAN ; TYRER MARK ; WHINCUP GREAVES ROSEMARY IRENE

Agent(s): SHELSTON IP; SHELSTON IP PTY LTD; PERRY AND CURRIER; HEDLEY NICHOLAS JAMES MATTHEW ET AL; COLES ANDREA BIRGIT; HEDLEY N J M ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY NZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

33) Family number: 30261843 (WO04006967A1)

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Title: COMPOSITION OF CONTROLLED RELEASE OF PERFUMES AND FLAVOURS

Abstract: The invention concerns an extruded composition capable of releasing a perfume or flavour when in contact with water. The invention composition comprises a water-soluble polymeric element and a perfuming or flavouring element, the latter containing a perfuming or flavouring ingredient, a hydrophilic, essentially spherical, hollow silica and optionally a surfactant. The composition can also comprise a dye as optional component. The invention composition is also useful as a means intended to protect a perfume or flavour from an aggressive medium. The invention also concerns the consumer articles containing, or associated with, said composition, in particular powder detergents or soap bars or tablets.

Classifications:

International (IPC 8-9): A23G3/34 A23G4/00 A23G4/02 A23G4/04 A23G4/06 A23G4/10 A23G4/20 A23L1/00 A23L1/22

A61L9/012 A61L9/04 A61L9/05 C11D3/12 C11D3/37 C11D3/50 C11D9/44 (Advanced/Invention);

A23G3/34 A23G4/00 A23G4/02 A23G4/06 A23G4/18 A23L1/00 A23L1/22 A61L9/01 A61L9/04 C11D3/12 C11D3/37 C11D3/50 C11D9/04 (Core/Invention)

International (IPC 1-7): A23L1/00 A23L1/22 A61L9/04 A61L9/05

CPC: A23L27/74 A23L27/77 A23P10/30 A23G4/043 A23G3/346 A23G4/02 A23G4/06 A23G4/10 A23G4/20 A23G2200/00

A23G2220/20 A61L9/012 A61L9/042 A61L9/05 C11D3/124 C11D3/3753 C11D3/505 C11D9/442

European: A23G3/00K A23G3/00K+D A23G3/00K+H6 A23G3/30 A23G3/30+D A23G3/30+D6 A23G3/30+H6 A23G3/34E A23G4/02 A23G4/04R A23G4/06 A23G4/10 A23G4/20 A23L1/00P4 A23L1/22B4 A23L1/22B8 A61L9/012 A61L9/04B A61L9/05 C11D3/12G C11D3/37C3 C11D3/50B2 C11D9/44B K23G200/00 K23G220/20

Family:

Publication number	Publication date	Application number	Application date
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AT349229 E	20070115	AT20030740877T	20030703
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DE60310722 D1	20070208	DE20036010722T	20030703
DE60310722 T2	20071011	DE20036010722T	20030703
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EP1523339 A1	20050420	EP20030740877	20030703
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EP1523339 B2	20111214	EP20030740877	20030703
ES2278172 T3	20070801	ES20030740877T	20030703
WO04006967 A1	20040122	WO2003IB02630	20030703

Priority:

WO2002IB02860 20020711 EP20030740877 20030703 WO2003IB02630 20030703

Probable Assignee: FIRMENICH AND CIE

Assignee(s): (std): BENCZEDI DANIEL ; BOUQUERAND PIERRE ETIENNE ; DORMAL MARC ; FIRMENICH AND CIE ; HOLZNER GUENTER ; STRUILLLOU ARNAUD

Assignee(s): FIRMENICH S A ; FIRMENICH SA

Inventor(s): (std): BENCZEDI DANIEL ; BOUQUERAND PIERRE ETIENNE ; DORMAL MARC ; HOLZNER GUENTER ; HOLZNER GUNTER ; STRUILLLOU ARNAUD

Inventor(s): ARNAUD STRUILLLOU ; MARC DORMAL ; PIERRE ETIENNE BOUQUERAND ; GUNTER HOLZNER ; DANIEL BENCZEDI

Agent(s): SALVATERRA GARCIA MARIA DE LURDES

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

34) Family number: 34322863 (US2008251081A)

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Title: SYSTEMS FOR REMOVING DIMETHYL SULFOXIDE (DMSO) OR RELATED COMPOUNDS OR ODORS ASSOCIATED WITH SAME

Abstract: Preferred embodiments of the invention relate to systems for removing dimethyl sulfoxide (DMSO) or related compounds, or odors associated with same. The systems include adsorbents, odor adsorbing fabrics, masks, clean air members and clean air supply assemblies.

Classifications:

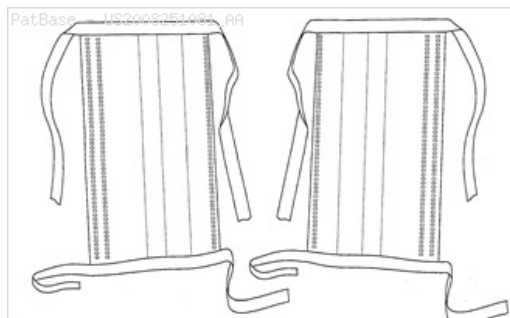
International (IPC 8-9): A41D13/11 A61L9/00 A61L9/01 A61L9/014 A61L9/16 A61L9/20 A61M16/00 A61M16/06 A61M16/10 A62B23/00 A62B7/10 B01D53/02 B01D53/04 B01D53/48 B01D53/50 B01J20/26 B01J20/28 C07K1/00 G01N21/62 (Advanced/Invention); A61L9/01 A61L9/16 A61M16/06 A62B7/10 B01D53/04 B01D53/48 B01J20/22 C07K1/00 G01N21/62 (Core/Invention)

International (IPC 1-7): C07K1/00

CPC: B01J20/28085 A41D13/1115 A41D13/1123 A41D13/1192 A61L9/014 A62B23/00 B01D53/02 B01D53/508 B01D2253/202 B01D2253/311 B01D2257/306 B01D2257/90 B01D2257/91 B01D2259/4533 B01D2259/4541 A61M16/0087 B01D53/04 A61M16/0093 A61M16/06 A61M16/105 A61M16/1055 A61M16/1065 A61M16/1075 A61M16/208 A61M2205/7527

European: A41D13/11B2 A41D13/11B4 A41D13/11M A61L9/014 A62B23/00 B01D53/02 B01D53/50D L01D253/202 L01D253/311 L01D257/306 L01D257/90 L01D257/91 L01D259/45M L01D259/45P

US: 1/1 128/203.12 128/203.120P 128/205.12 128/205.26 128/205.27 128/205.270P 128/206.21 252/184 422/120 422/120S 422/24 422/400 422/400S 422/5 422/56 422/56S 423/224 423/242.1 502/402 502/404 95/135 95/141 95/141S 95/286 96/117.5



Family:

Publication number	Publication date	Application number	Application date
AU2006291134 AA	20070322	AU20060291134	20060911
AU2006291134 BA	20130221	AU20060291134	20060911
AU2006291134 CB	20130815	AU20060291134	20060911
AU2012216375 AA	20120913	AU20120216375	20120822
CA2622204 AA	20080310	CA20062622204	20060911
CA2622204 C	20161011	CA20062622204	20060911
DE602006047036 D1	20151203	DE200660047036T	20060911
EP1966229 A2	20080910	EP20060814457	20060911
EP1966229 A4	20100113	EP20060814457	20060911
EP1966229 B1	20151021	EP20060814457	20060911
IN02993DN2008 A	20100416	IN2008DN02993	20080410
IN280864 B	20170303	IN2008DN02993	20080410
JP2009509724 T2	20090312	JP20080530021T	20060911
JP5399072 B2	20140129	JP20080530021T	20060911
US2008251081 AA	20081016	US20060066485	20060911
US2011203584 AA	20110825	US20110099098	20110502
US2013052112 AA	20130228	US20120659797	20121024
US2014116444 AA	20140501	US20130892190	20130510
US7955418 BB	20110607	US20060066485	20060911
US8298320 BB	20121030	US20110099098	20110502
US8440001 BB	20130514	US20120659797	20121024
US9186472 BB	20151117	US20130892190	20130510
WO07033083 A2	20070322	WO2006US35321	20060911
WO07033083 A3	20070927	WO2006US35321	20060911

Priority:

US20050716271P 20050912 US20050716336P 20050912 US20050716278P 20050912
US20050716369P 20050912 AU20060291134 20060911 EP20060814457 20060911
US20060066485 20060911 WO2006US35321 20060911 US20080066485 20080311
US20110099098 20110502 AU20120216375 20120822 US20120659797 20121024
US20130892190 20130510

Probable Assignee: ABELA PHARMACEUTICALS INC**Assignee(s):** (std): ABELA PHARMACEUTICALS INC ; CLAUSSEN HARVEY L ; COZEAN COLETTE**Assignee(s):** ABELA PHARMACEUTICALS INC LAKE FOREST**Inventor(s):** (std): COZEAN COLETTE ; CLAUSSEN HARVEY L**Inventor(s):** CLAUSSEN HARVEY ; CLAUSSEN HARVEY L PORTLAND ; COLETTE COZEAN ; COZEAN COLETTE LAKE FOREST ; HARVEY L CLAUSSEN**Agent(s):** FB RICE; FB RICE PTY LTD; SMART AND BIGGAR; DF MP DOERRIES FRANK MOLNIA AND POHLMAN PATENTANWALTE RECHTSANWALTE PARTG MBB; BRAND THOMAS LOUIS; REES KERRY; TACHIBANA KENJI; TANAKA JUNYA; KNOBBE MARTENS OLSON AND BEAR LLP**Designated states:** AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**35) Family number: 52534884 (WO12163995A1)**

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Title: DEODORIZING MIXTURES FOR INCONTINENCE ARTICLES**Abstract:** The invention relates to deodorizing mixtures, containing water-absorbing polymer particles and spherical activated carbon, for use in incontinence articles.**Classifications:****International (IPC 8-9):** A61F13/53 A61F13/84 A61L15/46 A61L15/60 (Advanced/Invention)**CPC:** A61F13/53 A61F13/8405 A61F2013/530671 A61F2013/842 A61L15/46 A61L15/60**European:** A61F13/53 A61F13/84B K61F13/53Q5 K61F13/84B1C**Family:**

Publication number	Publication date	Application number	Application date
DE112012002289 A5	20140313	DE201211002289T	20120531
WO12163995 A1	20121206	WO2012EP60200	20120531
WO12163995 A9	20130131	WO2012EP60200	20120531

Priority:

EP20110168382 20110601 WO2012EP60200 20120531

Probable Assignee: BASF SE**Assignee(s):** (std): BASF SE ; DANIEL THOMAS ; KARIM ASIF**Inventor(s):** (std): ASIF KARIM ; DANIEL THOMAS ; KARIM ASIF ; THOMAS DANIEL**Agent(s):** BASF SE**Designated states:** AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW**36) Family number: 15315944 (US6344036B)**

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Title: Material layer and method for manufacturing said layer

Abstract: The invention relates to a material layer of soft paper polymer fiber or polymer film intended to be used as a separate layer, or in at least one layer to be placed loosely on, or be bonded to one or more material webs for achieving a controlled diffusion capacity of a liquid deposited on at least the material layer, or for achieving a bulkier and thicker material web. The layer (1) has a plurality of slit formations (2) extending over it, which are laterally arranged in optional and mutually spaced relationship, such as to form free, separate strip formations (3), the layer (1) being intended to constitute a separate material layer or be included in a combination of at least one further, differing material layer or web, which, when the slitted layer (1) is drawn apart to a greater or less extent, positionally fixes the layer in different, given, opened-out configurations, depending on its field of use, this operation resulting in different opening widths being obtained for the slit formations (2) in the material layer.

Classifications:**International (IPC 8-9):** A61F13/15 D04H13/00 D21H27/02

D21H27/30 (Advanced/Invention);

D21H27/30 (Advanced/Non-invention);

A61F13/15 D04H13/00 D21H27/02 D21H27/30 (Core/Invention);

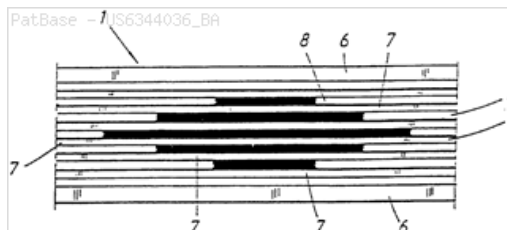
D21H27/30 (Core/Non-invention)

International (IPC 1-7): A61F13/15 A61F13/46 D21H27/30**CPC:** A61F13/53717 A61F2013/53782 D04H1/593 D04H13/00

A61F13/537 D21H27/02 D21H27/30

European: A61F13/537B4 D04H1/593 D04H13/00 D21H27/02

K61F13/537E4 N21H27/30

US: 604/369 604/378 604/385.101**Family:**

Publication number	Publication date	Application number	Application date
AU199724165 A1	19971022	AU19970024165	19970403
CA2251477 AA	19981002	CA19972251477	19970403
CA2251477 C	20070703	CA19972251477	19970403
EP0892628 A1	19990127	EP19970919823	19970403

SE509260 C2	19981221	SE19960001302	19960403
SE509260 C9	19971004	SE19960001302	19960403
SE9601302 A	19971004	SE19960001302D	19960403
SE9601302 A0	19960403	SE19960001302	19960403
SE9601302 L	19971004	SE19960001302	19960403
US6344036 BA	20020205	US19980155698	19981013
WO9736565 A1	19971009	WO1997SE00557	19970403

Priority:

SE19960001302 19960403 WO1997SE00557 19970403

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Assignee(s): (std): DUNI AB ; IVANSSON ANDERS

Assignee(s): SVENSKA HANDELSBANKEN AB ; SVENSKA HANDELSBANKEN C O HANDELSBANKEN MARK ; DUNI AB A SWEDISH CORP ; DUNI PO BOX AB ; DUNI A SWEDISH AB CORP

Inventor(s): (std): IVANSSON ANDERS ; ANDERS IVANSSON

Agent(s): FETHERSTONHAUGH AND CO

Designated states: AT AU BE CA CH DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE US

37) Family number: 34350962 (US2007073255A)

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Title: ABSORBENT PERSONAL CARE ARTICLE WITH A WRAP MEMBER HAVING DISTINCT COMPONENT LAYERS

Abstract: A wrapped article (20) includes a personal care absorbent personal care article (22), and a separately provided wrap member (24) which operatively encloses the absorbent personal care article (22). At least a major portion of the wrap member (24) includes an outer layer (26), an inner layer (28) and an intermediate layer (30) that is sandwiched between the inner and outer layers, and includes an operative amount of an odor control agent (32). In particular aspects, the intermediate layer (30) can include a nonwoven fibrous web, and the fibrous web can have selected fiber sizes. In another aspect, the intermediate layer (30) of the wrap member (24) can include a meltblown nonwoven web. In further aspects, the outer layer (26) can include a nonwoven fibrous web having particular fiber sizes, and the inner layer (28) can include another nonwoven fibrous web having the same or different fiber sizes.

Classifications:

International (IPC 8-9): A61F13/15 A61F13/551 (Advanced/Invention);

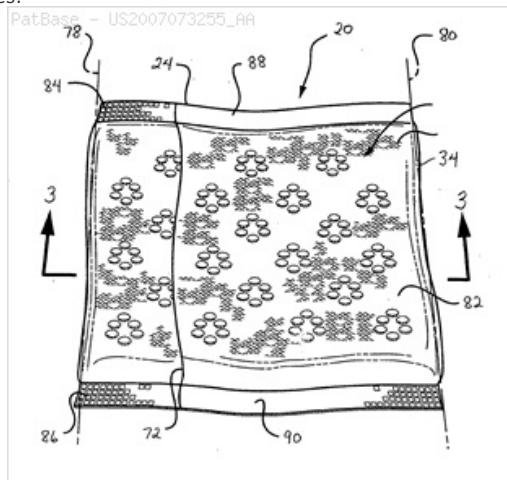
A61F13/15 A61F13/551 (Advanced/Non-invention);

A61F13/15 (Core/Invention)

CPC: A61F13/8405 A61F13/551

European: A61F13/551 A61F13/84B

US: 604/359 604/359S 604/385.02 604/385.020P



Family:

Publication number	Publication date	Application number	Application date
AU2006297555 AA	20070412	AU20060297555	20060908
AU2006297555 BB	20110929	AU20060297555	20060908
BRPI0615398 A2	20110517	BR2006PI15398	20060908
BRPI0615398 B1	20180206	BR2006PI15398	20060908
DE602006007597 D1	20090813	DE20060007597T	20060908
EP1928383 A1	20080611	EP20060803083	20060908
EP1928383 B1	20090701	EP20060803083	20060908
KR101295920 B1	20130813	KR20087007559	20060908
KR20080053321 A	20080612	KR20087007559	20060908
US2007073255 AA	20070329	US20050241102	20050929
WO07040896 A1	20070412	WO2006US34807	20060908

Priority:

US20050241102 20050929 WO2006US34807 20060908

Probable Assignee: KIMBERLY CLARK CORP

Assignee(s): (std): CLARK JAMES JOSEPH JR ; KIMBERLY CLARK CO ; KIMBERLY CLARK CORP ; THOMAS BRIAN LEE ; WOLTMAN GARRY ROLAND

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Inventor(s): (std): CLARK JAMES J JR ; CLARK JAMES JOSEPH JR ; GARRY ROLAND WOLTMAN ; THOMAS BRIAN L ; THOMAS BRIAN LEE ; WOLTMAN GARRY R ; WOLTMAN GARRY ROLAND ; ROLAND WOLTMAN GARRY ; LEE THOMAS BRIAN ; JOSEPH CLARK JR JAMES ; CLARK J JAMES JR ; BRIAN L THOMAS ; JAMES J CLARK JR ; CLARK JAMES JOSEPH

Inventor(s): CLARK JAMES JJR ; JR ; JAMES J CLARK ; CLARK JR JAMES JOSEPH ; JR JAMES J CLARK ; WOLTMAN GARRY ; BRIAN LEE THOMAS ; CLARK JAMES ; JAMES JOSEPH CLARK JR ; THOMAS BRIAN

Agent(s): SPRUSON AND FERGUSON; DAVIES CHRISTOPHER ROBERT; KIMBERLY CLARK WORLDWIDE INC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MY MZ NA NE NG

NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT
TZ UA UG US UZ VC VN ZA ZM ZW